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ABSTRACT

This publication is the result of a study undertaken by the National Energy Information Center (NEIC) to provide its customers with a list of generally free or low-cost energy-related educational materials available for students and educators. Each entry includes the address, telephone number, and description of the organization and the energy-related materials available. Where available, Internet and electronic mail addresses are included. (JRH)

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DOE/EIA-0546(95)

ENERGY EDUCATION RESOURCES

Kindergarten Through 12th Grade

Energy Information Administration
National Energy Information Center
U.S. Department of Energy
Washington, DC 20585

ED 395 831

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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February 1996

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PREFACE

This publication is the result of a study undertaken by the National Energy Information Center (NEIC), a service of the Energy Information Administration (EIA), to provide its customers with a list of generally free or low-cost energy-related educational materials available for students and educators.

Each entry includes the address, telephone number, and description of the organization and the energy-related materials available. Some organizations now make their products available via computer. When available, Internet (Web) and electronic mail (E-Mail) addresses were included in this year's edition. Each entry is followed by a number, which is referenced in the subject index in the back of this book.

Some of the organizations represented in this list take policy positions on certain energy issues and express them even in educational materials. Because EIA is the independent statistical and analytical agency within the U.S. Department of Energy (DOE), it does not advocate any policy position of DOE or any other organization. EIA has completed this list solely to aid educators and students in locating materials.

The list, which was compiled by Paula Altman of NEIC, is updated once a year. To include a new entry or to obtain a free copy of this list, contact NEIC at the following address:

National Energy Information Center, EI-231
Energy Information Administration
Room 1F-048, Forrestal Building
1000 Independence Avenue, S.W.
Washington, DC 20585
(202) 586-8800
TTY: For people who are deaf or hard
of hearing (202) 586-1181
9 a.m. to 5 p.m., eastern time, M-F

This publication is available on EIA's World Wide Web site: http://www.eia.doe.gov.

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Air & Waste Management Association (A&WMA)
One Gateway Center, Third Floor
Pittsburgh, PA 15222
(412) 232-3444
Fax: (412) 232-3450
E-Mail: info@awma.org

Provides educational materials for students in kindergarten through grade 12. Materials are designed to improve the environmental literacy of students and educators and introduce them to actions that they can take to reduce waste, conserve energy, and develop pollution prevention plans. Materials include fact sheets and information books on such topics as air pollution, pollution prevention, recycling, hazardous waste, landfills, and others. A&WMA also produces *Environmental Resource Guides (ERG's)* on air quality and nonpoint source pollution prevention, which focuses on water quality and runoffs. The *ERG's* are supplementary curricula with a hands-on, interdisciplinary approach to environmental education. We encourage A&WMA members and other interested parties to sponsor local teacher-training workshops. The workshops provide teachers an opportunity to participate in ERG activities and create an ongoing dialogue between environmental professionals and the educational community. Contact A&WMA headquarters to find out about teacher-training opportunities in your area or to order public education materials. **1**

Founded in 1907, A&WMA is a nonprofit, technical, and educational organization with over 16,000 members in 65 countries. This worldwide network represents many disciplines: physical and social sciences, health, engineering, law and management. It serves its members and the public by promoting environmental responsibility; provides technical and managerial leadership in the areas of air pollution control, environmental management, and waste processing and control.

The Alliance to Save Energy
1725 K Street, N.W., Suite 509
Washington, DC 20006-1401
(202) 857-0666
1-(800) 376-6216
Fax: (202) 331-9588

A nonprofit coalition of business, government, environmental, and consumer leaders.

Consumers who call the toll-free number receive a poster with energy-saving tips and the opportunity for a free informational kit with information from DOE, the Environmental Protection Agency, product manufacturers, and other organizations. **2**

The Aluminum Association, Inc.
900 19th Street, N.W.
Washington, DC 20006-2168
(202) 862-5100
Fax: (202) 862-5164

A trade association representing the U.S. aluminum industry. Serves as principal source of information on aluminum and the industry.

Provides educational materials on recycling for use in kindergarten through grade 12. There are two educational videos available—"Call Me Can" and "Aluminum Recycling: Your Next Assignment." The videos can be borrowed on a free-loan basis by calling Modern Talking Picture Service (1-800-243-6877). Free catalogs are also available. **3**

American Association for Vocational Instructional Materials
220 Smithonia Road
Winterville, GA 30683
(706) 742-5355
Fax: (706) 742-7005

A nonprofit developer, publisher, and distributor of materials for vocational education.

Provides vocational instructional materials on electricity and electrical energy. Included are publications, computer software, and videos for reasonable fees. A free catalog is also available upon request. Publications available include *Electric Energy; Understanding Electricity and Electrical Terms; Electrical Wiring; How Electric Motors Start and Run; Fuels and Lubricants; Electric Motors; Home Electrical Repair;* and *Electrical Controls.* **4**

American Chemical Society
1155 16th Street, N.W.
Washington, DC 20036
(202) 872-4590
Fax: (202) 833-7732

The world's largest scientific society, with a membership of nearly 149,000 chemists and chemical engineers.

Publishes educational materials for use in grades 4 through 12. *WonderScience* is an exciting monthly hands-on science activities magazine for middle school students (back issues are available); *ChemMatters*, an award-winning magazine for high school students, relates chemistry to everyday life (published quarterly, back issues are available); and *ChemCom*, also for high school students, is a chemistry textbook that combines an emphasis on the role of chemistry in everyone's life with basic chemical knowledge. All three products deal with such energy-related topics as electricity, recycling, nuclear energy, and the environment. A free *Teaching Resources Catalog* is available upon request. **5**

American Coal Foundation
1130 17th Street, N.W., Suite 220
Washington, DC 20036-4604
(202) 466-8630
Fax: (202) 466-8632

A nonprofit educational organization supported by a coalition of coal producers, electric utilities, railroads, equipment suppliers, sellers, and the labor union.

Provides materials on coal production, distribution, usage, research, and the environment. Some of the materials are available in classroom sets free of charge. Also available free of charge is a coal kit containing samples of peat, lignite, bituminous coal, and anthracite, and a brief description of the formation and different types of coal. **6**

American Forest Foundation
Project Learning Tree
1111 19th Street, N.W., Suite 780
Washington, DC 20036
(202) 463-2462
Fax: (202) 463-2461

Develops, funds, and administers programs that encourage the long-term stewardship of our natural resources. The Foundation's core programs are Project Learning Tree (PLT) and American Tree Farm System.

PLT is co-sponsored by the American Forest Foundation and the Western Regional Environmental Education Council. PLT's newly revised curriculum guide, *Project Learning Tree: Environmental Education Pre-kindergarten through Grade 8 Activity Guide*, focuses on the total environment: land, air, and water. It is local, national, and global in scope. The new curriculum underscores PLT's primary goal–to help children learn how to think about the environment, not what to think about the environment. The curriculum remains easily adaptable to many settings from the classroom to youth organizations, museums, nature centers, and scout troops. Nearly 100 activities are offered in a storyline technique covering the themes of diversity, interrelationships, systems, structure and scale, and patterns of change. Central to the new curriculum is an emphasis on constructivist learning theory and whole language teaching strategies. Background information, authentic assessment opportunities, an extensive bibliography, and a cross reference index are also included. A new curriculum made up of individual thematic modules, for use in grades 9 through 12, is near completion. PLT curricular materials are available only through workshops. Contact PLT for the name of the program coordinator in your State. 7

American Geological Institute
4220 King Street
Alexandria, VA 22302-1502
(703) 379-2480
Fax: (703) 379-7563

Distributes information on earth science education through several mechanisms, including publications (textbooks, monographs, brochures), public inquiries, outreach programs (workshops and presentations), and compact discs and a laser disc. *Careers in the Geosciences* (1-10 copies free) and the *Earth Science Resources List for Teachers* (free) are among the publications available. Compiled and distributed since 1990, the *Earth Science Resources List for Teachers* provides information on earth science educational materials that are available from nonprofit organizations. The list is updated annually and is available in hard copy and through electronic mail (E-Mail) at: ncese@agi.umd.edu. AGI's goals are to advance and promote the geosciences through improved public information, expanded professional services to the geoscience community, and increased earth science educational programs at the college and precollege levels. For additional information, write to AGI Publications Center, P.O. Box 205, Annapolis Junction, MD 20701, (301) 953-1744 or fax at (301) 953-2838. **8**

Established in 1948, the American Geological Institute (AGI) is a nonprofit federation of 29 member organizations representing more than 80,000 geologists, geophysicists, and other earth scientists.

American Nuclear Society
Public Communications Department
555 North Kensington Avenue
LaGrange Park, IL 60525
(708) 579-8265
Fax: (708) 352-0499
E-Mail: outreach@ans.org

A nonprofit scientific and educational organization of professionals in the field of nuclear science and technology.

Offers free publications (single copies) on nuclear energy and uses of the atom. Available materials include *Nuclear Energy Facts Q&A, Nuclear Technology Creates Careers, Personal Radiation Dose Chart,* and a simulated nuclear fuel pellet. Science and social studies curricula materials for use in kindergarten through grade 12 may be borrowed or purchased. A free catalog is available upon request by mail or electronic mail at outreach@ans.org. Teachers may sign up for the free newsletter *re-actions,* which contains articles on uses of the atom in everyday life and–in each issue–an "activity card" with a project for classroom use. Also sponsors, each summer, 5-day teacher workshops for science and social studies instructors grades 6 through 12. Shorter workshops and sessions are held throughout the year at exhibits, conferences, in-service training, and by invitation. **9**

American Petroleum Institute
Public Relations Department
1220 L Street, N.W.
Washington, DC 20005
(202) 682-8000

A national trade association that encompasses all branches of the petroleum industry.

Supplies educational materials on the petroleum industry. Some publications are free, such as *The Ecosystem of Oil* which is available for classroom use in quantities of up to 35 copies. A free catalog is available. **10**

American Plastics Council
1275 K Street, N.W., Suite 500
Washington, DC 20005
(202) 223-0125
1-(800) 2-HELP-90
Fax: (202) 371-5679

Offers educational materials on resource management targeting elementary, middle, and high school levels. "Plastics in our World" supplemental kits include the booklet *How to Set Up a School Recycling Program*, which takes a step-by-step approach to starting and building upon current recycling programs. The classroom activities in the two kits vary to target kindergarten through grade 6 and grades 7 through 12. Single copies of these kits are offered free to teachers. The "Hands On Plastics: A Scientific Investigation Kit" is the newest resource available to middle school and high school teachers. The kit contains samples of recycled plastic pellets, a full curriculum for the teacher (slides included) and includes experiments to show students the different characteristics of each type of plastic. This kit is available for a fee. An order form listing all APC materials is also available. **11**

The American Plastics Council (APC) is a national organization working on behalf of the overall U.S. plastics industry to enhance the integrity of plastics with the public and others by focusing on resource management-related environmental issues and product benefits. APC is a joint-initiative with the Society of the Plastics Industry.

American Public Power Association
2301 M Street, N.W., Suite 300
Washington, DC 20037
(202) 467-2900

A service organization for not-for-profit community-owned electric utilities.

Provides various pamphlets, including *The Benefits of Public Power; History of Public Power; Careers in Public Power;* and *All About Electricity and 10 Ways Kids Can Save It.* Offers a *Teaching Unit on Electromagnetic Waves,* which was developed by the Los Angeles Department of Water and Power for junior high and senior high school students. Also available are two videos, "Simple Things You Can Do to Save Energy" and "How to Make Great Videos About Saving Energy." The videos were prepared by the Burlington (Vermont) Electric Department through the American Public Power Association's DEED (Demonstration of Energy Efficient Developments) program. Publications and videos are offered for a nominal fee. A free catalog is available. **12**

American Solar Energy Society
2400 Central Avenue, Suite G-1
Boulder, CO 80301
(303) 443-3130
Fax: (303) 443-3212
E-Mail: ases@igc.apc.org

A national membership association dedicated to advancing the use of solar energy.

Offers sample copies of its magazine *Solar Today.* Has one science project book, *Elementary and Secondary Science Projects in Renewable Energy and Energy Efficiency,* available for a fee. Bulk discounts are available. **13**

American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
(303) 794-7711
(303) 347-6138 (Youth Education)
Fax: (303) 794-7310

An international, nonprofit, scientific, and educational organization of professionals associated with the public drinking water industry, including utilities, manufacturers, consultants, researchers, educators, etc.

Provides educational materials designed to teach young people about water treatment, distribution, and conservation. Materials include activity books, teacher's guides, comic style books, computer software, videos, bookcovers, and novelty items. Nonmembers may order materials directly from AWWA headquarters in Denver. Most materials are low in cost. To order materials or receive an AWWA Youth Education Catalog, call the AWWA Bookstore at 1-(800) 926-7337. **14**

American Wind Energy Association
122 C Street, N.W., Suite 400
Washington, DC 20001
(202) 383-2500
Fax: (202) 383-2505
E-Mail: 7395895@mcimail.com

The American Wind Energy Association (AWEA) represents wind energy as a technology that is economically and technically viable today.

Offers a general information packet for teachers which includes a copy of the Association's publication *The Most Frequently Asked Questions About Wind Energy*. **15**

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
1-(800) 800-2775

Apple develops, manufactures, and markets personal computers for use in education, business, science, engineering, and government.

In 1990, Apple introduced the LC series of computers (including the I, II, III, 520, 550, 575, and 630). Developed specifically for education, this learning computer series features an all-in-one design and integrated multimedia features, including a built-in compact disc (CD-ROM) drive.

For educators who need greater power or faster speed, Apple introduced Power Macintosh in early 1994. This family of high-end computers is built around the new PowerPC processor and its advanced RISC technology. The Power Macintosh upgrade option offers educators the flexibility to add new capabilities to Macintosh LC computers while protecting their technology investments.

The Apple Education Series (AES), a suite of products that help educators effectively use and integrate technology into their learning environments, includes hardware and software components and select training and support, focusing on curriculum and other education-specific needs.

In addition to the current products, Apple also publishes the *Macintosh & Curriculum* handbooks for kindergarten through grade 12. Handbooks model technology integration into the mathematics and science curriculum. Each handbook contains assessment guidelines and a variety of investigations which consists of lesson plans, activities, and extensions.

In the *Macintosh & Curriculum Handbook: Elementary Mathematics and Science*, energy-related investigations include: "Star Date: 2210 In Search of the Lost Probes" and "Whole Lotta So."

In the *Macintosh & Curriculum Handbook: Secondary Science*, energy-related investigations include: "Conservation of Heat Energy," "Change Through Time," "What Environmental Conditions May Bring About Extinction," and "Temperature Change."

Information about any Apple product is available on the Internet at http://www.info.apple. com/education or by calling our national educational support center at 1-800-800-2775. Science handbooks are available for a nominal fee from the National Science Teachers Association at 1-800-722-NSTA. **16**

Arizona Department of Commerce
Energy Office
3800 N. Central, Suite 1200
Phoenix, AZ 85012
(602) 280-1402
Fax: (602) 280-1445
E-Mail: jima@ep.state.az.us

A DOE-funded program that emphasizes an energy efficiency curriculum for students in kindergarten through grade 12.

Provides the following materials and services for primary and secondary schools free of charge: *Bright Ideas* (single-topic publications covering energy and the environment, renewable energy, solar cooking, photovoltaics, and recycling); Energy Learning Centers I and II (activities and games for primary, intermediate, and upper grades); and Energy Patrol (assistance including start-up kit). **17**

The Aseptic Packaging Council
P.O. Box 3794
Washington, DC 20007
1-(800) 277-8088

A trade association of drink box manufacturers committed to establishing effective and economical school and curbside drink box and milk carton recycling programs.

Offers free educational materials on recycling issues for teachers and students. *Waste Wise: Concepts in Waste Management*, a teacher's discussion guide, can be adapted for particular classes from kindergarten through grade 12. We also have available a poster, What's New In Recycling, which complements the teaching guide. A general information brochure may also be ordered. **18**

The Bakken Library and Museum
3537 Zenith Avenue South
Minneapolis, MN 55416
(612) 927-6508
Fax: (612) 927-7265
Web: http://www.umn.edu/nlhome/m557/rhees001/blm/welcome.htm

A nonprofit educational organization with library and museum collections documenting the history of electromagnetism and its uses in the life sciences.

The Bakken has developed a book and kit to teach students how scientists of the 18th century succeeded in developing the basis for all we know about electrostatics, equipped only with their powers of observation and simple apparatus. The kit has easy-to-assemble apparatus commonly found in an 18th-century electrical laboratory, a 22-minute videotape, and a 100-page curriculum manual. The manual has instructions for demonstrations and experiments, methods for adapting the experiments for students from the elementary grades through high school, and gives the historical context in which key discoveries were made. Designed and tested by The Bakken Library and Museum, this kit offers an excellent introduction to teaching basic electricity and the history of science.

By using this inquiry-based approach, students gain deeper insight into the

principles of electrostatics. The development of the kit was cofunded by the National Science Foundation. This kit is available for sale from The Bakken. The video and curriculum manual are available separately. Write or fax to obtain The Bakken's current list of other educational resources for sale or to receive our free newsletters. **19**

Baltimore Gas and Electric Company (BGE)
State Affairs/Education
P.O. Box 1475
Baltimore, MD 21203-1475
(410) 234-7484
Fax: (410) 234-7426

An investor-owned utility serving Baltimore City and all, or parts of, nine central Maryland counties.

Provides educational services free of charge to schools **in BGE's service area**. Services include classroom programs, career programs, resources, and newsletters for educators; certified workshops for educators; and films/videos, power plant tours, and classroom literature for students in kindergarten through grade 12. A free *Educational Resources* catalog is available upon request. **20**

Biofuels America
26 Lorin Dee Drive
Westerlo, NY 12193
(518) 797-3377
Fax: (518) 797-3385
E-Mail: biofuels@globalone.net
Web: http://www.albany.globalone.net/biofuels/

A not-for-profit organization. Advocates the production and use of renewable transportation fuels with a focus on environmental sustainability, regional economic growth, and curbing global climate change.

Maintains a large database of contacts and publications. Provides free referrals to educators and students. Will help locate others involved in renewable fuels, energy, and energy efficiency by region or by other specific information, including political, environmental, agricultural, and industry contacts. Hosts a biofuels forum on the Internet. Helps identify potential opportunities for development of regional businesses. Information by Internet only. **21**

BP America
Corporate Communications
200 Public Square (40-H)
Cleveland, OH 44114-2375
(216) 586-6511
Fax: (216) 586-5593
E-Mail: kochtj@regctr02.usaclv.msnet.bp.com

The wholly owned U.S. subsidiary of one of the world's largest international petroleum and petrochemical groups.

Science Across America makes it possible for students to exchange their scientific work with others throughout the United States and around the world. The program includes eight teaching modules designed for students in grades 7 through 12. The units deal with those issues which are of international environmental interest (e.g., energy and drinking water quality) and are common to science courses internationally. There is a fee, which includes lifetime registration on a worldwide database of participating schools. For more information, write to the address above. *BP Statistical Review of World Energy*, a booklet containing information on world energy supplies and demand, includes data on oil, gas, coal, nuclear, and hydro in terms of reserves, production, and consumption for a 10-year period before the current year. Also available is *New Horizons*, BP's annual report on health, safety and the environment. Available in a limited quantity is *BP Review of World Gas*. These publications are free to teachers. Contact above address. Also available is the *BP Educational Resources Catalogue*, which offers a full range of school resource materials. Some of the items in the catalogue are available for a fee. **22**

Bullfrog Films
P.O. Box 149
Oley, PA 19547
1-(800) 543-3764
Fax: (610) 370-1978
E-Mail: bullfrog@igc.apc.org

An educational film distributor that offers the largest collection of energy films and videos in the country.

Provides educational films and videos on energy and energy-related issues. Titles include *Bill Loosely's Heat Pump; Decision: Energy for the Future; The Energy Bank; Energy Efficiency; Energy, Technology and Society; Harness the Wind; Living Under the Cloud: Chernobyl Today; Race for the Future; Solar Promise;* and *Wake Up Freddy,* in the tradition of Bullfrog's classic *Toast.* Programs are available for purchase or rental. Special packages, with discounted prices, can be created to serve most schools' needs. A free catalog is available upon request. **23**

California Energy Commission
1516 9th Street, MS-31
Sacramento, CA 95814
(916) 654-4982
Fax: (916) 654-4420
E-Mail: energia@energy.ca.gov
Web: http://www.energy.ca.gov/energy/education/eduhome.html

The California Energy Commission is the State's principal energy planning organization, promoting a balanced and competitive energy system through its diverse programs.

Provides the following environmental education materials for a small fee for kindergarten through grade 12: *Compendium for Energy Resources; Compendium for Human Communities; Universal House, Energy, Shelter & The California Indian; 4-H Home Conservation Guide; Conserve & Renew; Energy Tech-Knowledgy; Let's Get Energized; Turn Out Those Lights—Energy Patrol; Bright Ideas;* and *Energy Quest* - visit the Nation's first Internet site dedicated solely to energy education. Features word games, puzzles, energy-related math and science experiments, and information on conservation, energy safety and alternative energy sources; the colorful new site on the World Wide Web is geared to students, parents, and teachers. **24**

California Foundation for Agriculture in the Classroom
1601 Exposition Boulevard, FB 16
Sacramento, CA 95815
(916) 924-4380
Fax: (916) 923-5318

A nonprofit educational foundation that provides educational resources and training for teachers to use agriculture as an integration theme throughout kindergarten through grade 12 curricula.

Teachers may request free or low-cost items including lesson plans, comprehensive classroom units, videos, a resource guide, and the *Cream of the Crop* newsletter. Most programs are specific to California but a limited number of resources may be available for use in other States. Among lesson plans available, some have Spanish language worksheets. All lesson plans are correlated with California curriculum frameworks and undergo extensive field testing and teacher and technical review.

The Foundation encourages classroom integration of agriculture to increase understanding of its vital role in our lives. Agriculture provides a theme which encourages hands-on activities to reinforce concepts in science/environment, mathematics, English/language arts, history/social science, health/nutrition, physical education and the visual and performing arts. Contact with the Foundation is a good starting point for teaching other agriculture-related groups that produce educational resources. Educational materials developed by industries and organizations related to agriculture are reviewed by the Foundation and listed in an annually updated Teacher Resource Guide.

25

The Center for Energy and Economic Development (CEED)
1800 Diagonal Road, Suite 370
Alexandria, VA 22314
(703) 684-6292
Fax: (703) 684-6297
Web: http://www.conx.com/ceed

A nonprofit organization dedicated to preserving coal's role as an economical, efficient, and environmentally compatible source of electricity.

Offers *America's Fuel*, a booklet describing how coal is mined and sent to the marketplace and coal's role in supplying America with electricity, environmental compatibility, new technologies, and economic growth. A video, also called "America's Fuel," is available as well. Also available is a CEED "Pocket Piece" folder which gives facts about coal on such topics as coal technology, coal transportation, health and safety, coal and the environment, coal and the economy, and electricity. Teachers may also request CEED's Coal Technology poster, which describes the process of coal extraction and creating electricity. All are free of charge. CEED also has an extensive Home Page on the Internet. **26**

Center for Renewable Energy and Sustainable Technology
777 North Capitol Street, N.E., Suite 805
Washington, DC 20002
(202) 289-5370
Fax: (202) 289-5354
E-Mail: info@crest.org

The Center for Renewable Energy and Sustainable Technology (CREST), a project of the nonprofit organization the Solar Energy Research and Education Foundation, is dedicated to promoting renewable energy and sustainable development using advanced communications and computer technology.

CREST operates an on-line clearinghouse of renewable energy and energy efficiency information called SOLSTICE, which provides free electronic access to documents, images, directories, and other databases around the world. SOLSTICE can be accessed via Gopher ("gopher.crest.org"), File Transfer Protocol (ftp to "solstice.crest.org"), and the World Wide Web ("http://solstice.crest.org/"). CREST has published multimedia educational CD-ROM's about renewable energy, efficiency, and global climate change; the *Sun's Joules* multimedia encyclopedia on renewable energy; and a renewable energy demonstration module. A free quarterly newsletter, *Resource*, details the Foundation's activities and renewable energy activities. Available on-line and by mail. **27**

Channing L. Bete Publishing Co., Inc.
200 State Road
South Deerfield, MA 01373-0200
1-(800) 628-7733
Fax: (413) 665-2671

A publishing firm specializing in Scriptographic Booklets. Most utilities provide them to schools in their service territories free of charge; however, the booklets are available from the publisher for a fee.

Offers *My Book* series, designed for students in kindergarten and grade 1; *Coloring and Activities Books* for students in grades 1 through 3; and *Information and Activities Books* for students in grades 4 through 6. "Experiment Kits" on Magnetism, Conservation, Energy, and Electricity, all for students in grades 4 through 6, are available. Each kit contains 35 student workbooks and 1 instructor's guide. Energy and Environmental posters for classroom and public display are also available. Contact your local utility for availability or call the publisher directly. **28**

Charles Edison Fund
101 South Harrison Street
East Orange, NJ 07018
(201) 675-9000
Fax: (201) 675-3345

A charitable foundation providing science teachers with simple, basic, proven fun experimental booklets containing 75 experiments.

Provides "The Best of Edison Science Teaching Kits," which are available to teachers. Each kit contains eight how-to booklets based on experiments of Thomas Edison and other scientists. These are suitable for grades 4 through 8. Titles include: *Energy for the Future; Useful Science Projects; Environmental Experiments; Selected Experiments and Projects; Nuclear Experiments; Energy Conservation; Alternative Energy Sources;* and *Lewis Howard Latimer Experiments.* There is a small fee for handling charges. Write for coupon to receive this kit. **29**

The Chlorine Chemistry Council (CCC)
1300 Wilson Boulevard
Arlington, VA 22209
(703) 741-5000

The Chlorine Chemistry Council is part of the Chemical Manufacturers Association established to provide information to the public regarding chlorine and to promote the practice and understanding of responsible use for chlorine chemistry.

Making the connection between the periodic table and real life can be challenging—particularly for middle school teachers. CCC offers hands-on materials designed to introduce basic chemistry and the periodic table. By taking a look at one element—chlorine—teachers can help students understand the link between chemical "building blocks" and daily life. The video, hand-outs, experiments, and lesson guides in the Building Block Chemistry Program were developed by teachers for teachers to help students explore their world. For **FREE** classroom materials and video, write to the address above. **30**

City Public Service (CPS)
Consumer Services Section
P.O. Box 1771
San Antonio, TX 78296-1771
(210) 978-2833
Fax: (210) 978-4327

A municipally owned natural gas and electric utility serving substantially all of Bexar County and small portions of seven adjacent counties.

Provides safety and energy educational services free of charge to schools **in the CPS service area**. Services include classroom presentations, workshops for educators, a videotape library, curriculum supplements, and power plant tours. A free *CPS School Energy Education Program Catalog* is available upon request. **31**

City Utilities of Springfield
301 E. Central
P.O. Box 551
Springfield, MO 65801-0551
(417) 831-8311
Fax: (417) 831-8808
E-Mail: edecamp@mail.orion.org

A municipal utility serving the metropolitan area of Springfield with electricity, natural gas, and water.

Provides educational services free to instructors **in areas served by City Utilities**. Offers tours to power plants and water treatment plants, classroom presentations, speakers' bureau, and purchased curriculum materials for students in kindergarten through grade 12. City Utilities also has special units, "The Planet Water" and "Are You Being Safety Conscious Around Electricity." Single copies are available to teachers outside City Utilities' service area. **32**

Cobblestone Publishing, Inc.
7 School Street
Peterborough, NH 03458
1-(800) 821-0115
Fax: (603) 924-7380
E-Mail: custsve@cobblestone.mv.com

A publishing firm specializing in magazines for children and teaching resources.

Publishes educational materials for students in grades 5 through 8. Energy-related titles are: *Energy: Powering Our Nation; Recycling; Earth: A Global Spaceship; Planet Earth: Home Sweet Home;* and a theme pack with activities, ENVIRONMENT. Materials may be purchased from the publisher. Free catalogs are available upon request. **33**

Colorado School of Mines
Teacher Enhancement Program
Office of Special Programs
and Continuing Education
Golden, CO 80401
1-(800) 446-9488 x 3303
Fax: (303) 273-3314

A State college of science and engineering teacher enhancement program offering coursework and resources for primary school and secondary school educators in science, energy, math, technology, and the environment.

Three times a year, provides a free catalog of course listings specifically for teachers. Courses carry graduate-level recertification credit and offer content-based instruction; practical hands-on experience; and, in some cases, extensive field trips. Offers for a nominal fee *What's Under Your Feet,* an earth science activity book for students in kindergarten through grade 6; *Sharing Science with Children,* a survival guide for visiting scientists and engineers in the classroom; and *Sharing Science: Linking Students with Scientists and Engineers,* a survival guide for teachers. **34**

Consolidated Edison Company of New York, Inc.
Community Relations
4 Irving Place, Room 1631S
New York, NY 10003
(212) 460-6907

An investor-owned electric, gas, and steam utility serving New York City and Westchester County.

Con Edison's Community Relations presentations and materials, **available free only in New York City and Westchester County**, provide customers with information on energy efficiency and conservation; safety; the basics of electricity; and the economic and environmental relationship of energy supply, delivery, and use. Although primarily for educators and students, educational services can be tailored to meet the needs of other organizations. Write or call for a free catalog of materials. **35**

The Consumer Aerosol Products Council
1201 Connecticut Ave., N.W., Suite 300
Washington, DC 20036
(202) 833-9471

Supported by companies that manufacture and market aerosol products, the Consumer Aerosol Products Council (CAPCO) was formed to provide information on aerosols and environmental issues for consumers, media, and educators at all levels.

Offers "Another Awesome Aerosol Adventure" educational unit for students in grades 4 through 8. Included is an 11-minute video produced by the makers of the children's television program "Beakman's World." Designed with humor in mind, the video, along with accompanying teacher and student guides and take-apart aerosol can, makes the complex issues of aerosol technology, ozone depletion, and environmental awareness memorable and fun for a middle school-age audience. "Another Awesome Aerosol Adventure" is available through Modern Talking Pictures. To order, call Modern's toll free number 1-(800) 243-6877 and ask for digest #K-0190-A. **36**

Culver Company
316 Merrimac Street
Newburyport, MA 01950
1-(800) 4-CULVER
Fax: (508) 463-1715

A developer and publisher of educational materials about energy and related topics.

Produces booklets, videos, posters, and program enhancement items for children and adults. Teacher discussion guides are also available. Utilities purchase and distribute these materials in their service areas; other organizations may purchase them directly. **37**

Dayton Power & Light Company
School Programs
1065 Woodman Drive
Dayton, OH 45432
(513) 259-7251
Fax: (513) 259-7813

An investor-owned electric, steam and natural gas utility that serves 464,000 customers in 24 counties of a 6,000-square-mile area in west central Ohio.

Provides free educational programs and resources for students in kindergarten through grade 12 **to schools within the utility's service area**. Programs include a customized computer software program on energy conservation; an electric and natural gas safety program; an energy conservation program in which boy scouts and girl scouts can earn an energy awareness patch; science fair kits for teachers and a recognition event for top science fair projects; workshops to provide educators with energy-related information and resources; power plant and energy museum tours; and classroom presentations. Materials provided include booklets, videos, posters, student handbooks, and teacher's guides with classroom activities. **38**

Denver Earth Science Project
Office of Special Programs & Continuing Education
Colorado School of Mines
Golden, CO 80401
1-(800) 446-9488 x3038
Fax: (303) 273-3314
E-Mail: jproud@mines.edu

A teacher enhancement program, in partnership with corporations, Federal agencies, school districts, and professional organizations, which provides innovative earth science curriculum materials for use in kindergarten through grade 12 and teacher training.

Provides, for a fee, a series of educational workshops that address a range of earth science topics developed by trained curriculum development teams. The team members are experienced earth science teachers and practicing scientists. The hands-on student activities included in each module incorporate real data and follow a problem-solving approach. Each module integrates mathematics, geography, economics, and social and environmental issues with basic earth science concepts. The modules are:

- "Oil and Gas Exploration" (grades 7-12)
- "Ground Water Studies" (grades 7-9)
- "Paleontology and Dinosaurs" (grades 7-9)
- "Energy-A Closer Look at Oil and Gas" (grades 4-6).

Each module contains a teacher resource kit which includes a teacher/student notebook, maps, audio-visual materials, posters, oil samples, groundwater models, etc. Call to find out the location of the nearest training site. **39**

Disney Educational Productions
105 Terry Drive, Suite 120
Newtown, PA 18940
1-(800) 295-5010
Fax: (215) 579-8589

Disney Educational Productions develops and distributes entertaining and thought-provoking videos and interactive laser discs that excite children of all ages to learn about a variety of subjects.

Offers educational videos and videodiscs on energy, the environment, earth science, recycling, and water. Curriculum-oriented videos come with discussion guides and lesson plans. Titles include:

- "Recycle Rex" (starring Disney's hip animated recycling dinosaur)
- "The Energy Savers" (starring Donald Duck, Mickey Mouse and Goofy)
- 10 "Bill Nye the Science Guy" earth science shows
- "Electricity"
- "Zort Sorts"
- "The Great Search—Man's Need for Power and Energy"
- "The Time Traveler's Guide to Energy."

Interactive discs, such as *Recycle Rex* and *Discover Quest: Explorations in Earth Science*, encourage learning with a mix of videos, interviews, games, on-line glossaries, and comprehensive guidebooks. Programs are available for purchase or lease. Call the toll-free number to request a free catalog. **40**

DuPont
Corporate Contributions
Nemours Building
N9541
Wilmington, DE 19898

External Affairs of a chemical company.

Offers for a fee an environmental resource kit developed with the National Science Teachers Association (NSTA). Material covers air, land, life, people, planet, and water. The kit, which is targeted for grades 4 through 9, includes color posters, population data charts, and color transparencies. Call 1-(800) 722-NSTA. **41**

Earth Foundation
5151 Mitchelldale, Suite B-11
Houston, TX 77092
(713) 686-1205
Fax: (713) 686-6561
E-Mail: EarthFound@aol.com

An organization dedicated to environmental education and conservation.

Each year thousands of schools participate in the Earth Foundation's Rescue the Rainforest Project. Thus far, the network of active environmental teachers and students is responsible for adopting over 20,000 acres of rainforest. A free "Rainforest Project Kit" is available to educators. The kit, which includes curriculum, videos, instructions, and a ready-made fundraising project, contains everything a school will need to supplement an ecology unit with a teaching method called "Solution-Based Teaching." Upon completion, participating schools receive a certificate recognizing them for the acres adopted and written updates about the area being preserved. Schools that adopt three or more acres receive a free follow-up video that shows students live footage of the area. Call 1-(800)-5MONKEY for a free "Rescue the Rainforest Kit" and for more information about this project or the Coral Reef Rescue Campaign. **42**

East Ohio Gas
Educational Affairs Department
P.O. Box 5759
Cleveland, OH 44101-0759
(216) 736-6218
Fax: (216) 736-5323

A natural gas utility serving over one million customers in a 23-county area throughout northeast and southeast Ohio.

Promotes energy awareness in the community and emphasizes the importance of natural gas. Provides educational resources, free of charge, to primary school and secondary school educators **in the areas served by East Ohio Gas**. A free *Educational Resources & Awards Catalog* offers a variety of programs and an extensive media library. New topics include natural gas vehicles, math minigrants, and parental resources. **43**

Edison Electric Institute (EEI)
Order and Billing
701 Pennsylvania Avenue, N.W.
Washington, DC 20004-2696
1-(800) 334-5453
Fax: 1-(800) 525-5562

An association of investor-owned electric utility companies.

Suggests that you first contact your local electric utility. Many utilities have educational programs about energy and the environment for schools. EEI's publications catalog is free. Other publications are available for a fee. **44**

Edison Plaza Museum
P.O. Box 3652
Beaumont, TX 77704
(409) 839-3089
Fax: (409) 839-3077

Established in 1982 by Gulf States Utilities Company as a nonprofit, educational institution to focus on the inventions of Thomas A. Edison and show how the electric industry has expanded on his patents to improve the quality of life.

Contains the largest collection of original Edison artifacts west of the Mississippi River. All eight major fields of Edison's achievement are represented. The museum is housed in the historic Travis Street Substation—the first building to distribute electric power in east Texas. Exhibits include past, present, and future energy technologies. A free guide book, brochure, and children's book are available upon request and can be mailed anywhere. **45**

Educational Development Specialists
5505 E. Carson Street, Suite 250
Lakewood, CA 90713
(310) 420-6814
Fax: (310) 420-1485

Energy and environmental education program developers and distributors.

Offers the Think Earth education program nationwide to sponsors who give the program to schools. This award-winning program interrelates air, land, water, and energy topics into a comprehensive environmental education school pack. It contains units for students in kindergarten through grade 6, plus a fully animated video. A free catalog is available on the program. **46**

Energy Source Education Council
Program Distribution Office
5505 E. Carson Street, Suite 250
Lakewood, CA 90713
(310) 420-6814
Fax: (310) 420-1485

A nonprofit organization involved in developing and distributing quality energy educational programs.

Has an Energy Source Education Program that is financially supported by member organizations (mostly utilities) from the private sector. Material is sold to the utility companies who then distribute it at no charge to classrooms **in their service areas**. Material to others is available for a fee. A free catalog is available. **47**

Enterprise for Education
1316 Third Street, Suite 103
Santa Monica, CA 90401
(310) 394-9864
Fax: (310) 394-3539

Offers booklets for primary school and secondary school science classes FREE from most utilities.

Publishes *Energy 90s*, the Energy and Environmental *Skill Builder* series, and the *Math at Work* series. Products range from in-depth, semester-long programs to short, one- to five-classroom period lessons on energy and environmental issues. All publications are printed in full color and include up-to-date information and an abundance of science experiments and classroom activities.

The *Skill Builder* series, 8- and 16-page booklets, comprises the following topics:

- Environmental *Skill Builders*—"Using Our Resources Wisely" (grades 2-4); "The Greenhouse Effect and Global Warming" (grades 6-12); and "Percentages Help an Environmental Engineer" (grades 6-8)
- Conservation *Skill Builders*—"Efficiency of Electric Appliances" (grades 6-10)

"Climate and Comfort" (grades 6-12); and "Is Efficiency the Best Energy Source?" (grades 9-12)

- Nuclear Energy *Skill Builders*—"Nuclear Reactor" (grades 8-12); "The Atom and Radiation" (grades 6-12); and "Nuclear Fuel Cycle" (grades 8-12)

- Fossil Fuel *Skill Builders*—"Coal: The Once and Future King?" (grades 6-9); "Natural Gas" (grades 6-12); "Geology of Oil" (grades 6-12); and "Refining Oil" (grades 8-12)

- Electricity *Skill Builders*—"Mouse House Surprise," a 32-page Teacher BIG book and student little book (grades K-2); "Paths for Electricity" (safety) (grades 3-5); "Energy Transformations" (grades 4-9); "Generating Electricity" (grades 5-9); "Sources of Electricity" (grades 5-9); "Demand for Electricity" (grades 6-9); "Working With Energy Graphs" (grades 6-12); "Measuring Helps an Electrician Wire an Apartment" (grades 4-6); "Electricity from Wind, Water & Sunlight " (grades 4-8), which includes a lab activity kit; and "Risk: Taking Chances, Making Choices" (grades 6-10).

When available, Enterprise's materials are provided free of charge by most utilities. Materials also may be purchased directly from the publisher. **48**

Environmental Education Associates, Inc. (EEA)
1211 Connecticut Avenue, N.W.,
Suite 812
Washington, DC 20036
(202) 296-4572
Fax: (202) 452-9370

An environmental services firm based in Washington, DC.

Publishes and presents *Borrowed Time*, an interdisciplinary school curriculum and training program designed to help intermediate and secondary school teachers examine, understand, and teach today's complex waste management issues. The *Borrowed Time* workshops are presented nationally through sponsorship, and free registration includes a complementary copy of curriculum materials. Educators who would like more information about any planned workshops in their area should contact EEA by phone or mail. **49**

Environmental Hazards Management Institute (EHMI)
10 Newmarket Road
P.O. Box 932
Durham, NH 03824
(603) 868-1496
Fax: (603) 868-1547

A nonprofit nonpartisan organization dedicated to resolving environmental problems through education and relationship building.

Offers a number of educational products for adults and students in kindergarten through grade 12. Included is the newsletter *EHMI Earth Express*™, designed for elementary school-age children to foster their awareness and understanding of environmental issues. Also offered for this age level is Kids Leading the Way in Energy Conservation™, an empowering color-in poster. The "Automobile Case for the Environment™" series of multimedia educational kits is offered for high school students. EHMI's "Home Environment Wheel™" addresses energy efficiency and indoor air quality at home. There is a fee for all educational materials, but discounts are available for bulk orders. A free catalog is available.

EV Media
612 Colorado Avenue, Suite 111
Santa Monica, CA 90401
(310) 394-3980
Fax: (310) 394-3539

An educational publishing company providing electric vehicle-related materials.

Provides publications and activity kits on electric vehicles (EV) for schools and the general public. Materials range from color booklets for secondary school students and adults to teacher guides, electric vehicle model kits, and discussion leader guides free from many electric utilities with EV programs. Materials cover electric vehicles, electricity, energy efficiency and conservation. Titles include *Electric Car 1995-96*, a 16-page color booklet (for grades 7 through 12 and adults); the 100-page *Teacher's Electric Vehicle Book*, everything a teacher needs to conduct a unit on electric vehicles; "The Electric Flyer Model Kit," which includes everything needed to build a working, tabletop size model electric vehicle; and "The Electric Vehicle Classroom Kit," which includes a classroom set of color booklets, the *Teacher's Electric Vehicle Book*, and five "Electric Flyer Model" kits. The Battery/Charger option for the EV "Classroom Kit" includes 5 rechargeable 1.5 volt AA Ni-cad batteries and a four-unit battery charger. **51**

Exxon Company, U.S.A.
Public Affairs
P.O. Box 2180
Houston, TX 77252-2180
(713) 656-8758
Fax: (713) 656-6267

Oil company department that responds to public inquiries pertaining to energy and environmental issues.

Offers a collection of scientific reports and brochures that document the environmental recovery of Prince William Sound, Alaska, following the 1989 Valdez oil spill. Also available is the 22-minute video "Scientists and the Alaska Oil Spill" and the video and lesson plan on artificial reefs "Aquariums Without Walls." The materials are free, but quantities are limited. **52**

Flexible Packaging Educational Foundation
1090 Vermont Avenue, N.W., Suite 500
Washington, DC 20005
(202) 842-3839
Fax: (202) 842-3841

A trade association of manufacturers and suppliers of flexible (or nonrigid) packaging, supporting educational efforts on the purpose of packaging and its role in the first "R" of waste management—reduction.

Offers *Less Waste in the First Place: Six Lessons on Packaging, Flexible Packaging and Source Reduction*, a lesson guide on packaging, free to educators. Appropriate for students in grades 4 through 10, the lessons discuss the historic, scientific, social, and environmental considerations involved in the design, development, and disposal of packaging. Included are instructions for a "hands-on" packaging design contest for students and suggestions on how to involve the local community. The lesson plan also features a listing, which can be used as a handout, of other resources for more information or further reading and an explanation of common myths surrounding packaging and garbage. **53**

Florida Energy Office
Department of Community Affairs
2740 Centerview Drive
Tallahassee, FL 32399-2100
(904) 488-2475
Fax: (904) 488-7688

The State's point of contact on all energy-related matters, issues, and programs.

Focuses on solar energy and conservation. *Renewable Energy Activities for Middle Grades*, lesson plans for students in grades 6 through 8, is available. *Solar and Energy Conservation Projects for Students* is available to elementary school teachers. Another publication, *Energy Research Projects Guide*, assists students in their selection of energy topics for science fair projects. Single copies are free of charge **to Florida teachers and students**. **54**

Florida Power & Light Company
Energy Encounter
P.O. Box 128
Ft. Pierce, FL 34954
(407) 468-4111
Fax: (407) 467-7565

A regulated investor-owned utility that serves more than 3 million customers in Florida.

Provides limited free energy educational resources **within the Florida Power & Light service area**. Sponsors an electrical safety poster contest for elementary and middle schools. Offers a speakers' bureau, special environmental education presentations on manatees and sea turtles, and a series of environmental education pamphlets. Operates the Energy Encounter visitors' center at the St. Lucie Nuclear Power Plant on Hutchinson Island. The center is open to the public and offers physical and environmental science presentations to school groups. Presentations meet the science objectives for Florida. Also offers environmental tours of the Barley Barber Swamp and Turtle Beach Nature Trail. **55**

Florida Solar Energy Center (FSEC)
1679 Clearlake Road
Cocoa, Florida 32922-5703
(407) 638-1000
Fax: (407) 638-1010

The energy institute for the State University System, FSEC's mission is to conduct research on alternative energy technologies, ensure the quality of solar energy equipment, and educate people about their energy options.

Offers some free publications on solar water heating, energy-efficient buildings, transportation, and lighting. Provides workshops and information packets to students, teachers, and energy professionals. An energy/environmental packet that emphasizes individual responsibility for the welfare of our environment was created at FSEC for primary school- and middle school-age children. It revolves around a character known as the "Planet Janitor" and includes a Spanish-English edition of the *Planet Janitor Coloring Book*. This packet is distributed for FSEC by DOE's Energy Efficiency and Renewable Energy Clearinghouse (EREC). For more information call 1-800-DOE-EREC. **56**

Foodservice & Packaging Institute, Inc.
1901 North Moore Street, Suite 1111
Arlington, VA 22209
(703) 527-7505
Fax: (703) 527-7512

A nonprofit trade association for manufacturers, suppliers, and distributors of foodservice disposable products. These products consist of single-use cups, plates, bowls, bags, cutlery, trays, hinged-lid "clam-shell" containers, and other paper, plastic, and aluminum items. Foodservice & Packaging Institute, Inc. (FPI) supports the environmentally responsible manufacture, distribution, use, and disposal of foodservice disposables.

Now offers three issue sheets—"Environment," "Sanitation," and "Lifestyle"—that explain the importance of foodservice disposable products to today's consumers. These informative single-page sheets are appropriate for middle school and high school students. FPI has just published the *Environmental Stewardship Report*, a detailed guide to the foodservice disposables industry's environmental accomplishments. The report is a useful resource for educators to use for their reference. Individual copies of FPI materials are free of charge to educators. Contact FPI to receive the price for larger quantities. **57**

Frey Scientific
905 Hickory Lane
Mansfield, OH 44905
1-(800) 225-3739
Fax: (419) 589-1522

A full-line supplier of educational materials, equipment, and supplies for science, designed for students from kindergarten through college.

Offers a general science catalog that includes over 75 pages of products for earth science and ecology study. Product line consists of books, charts and posters, videos and video discs, software, kits, games, manipulatives, general supplies and equipment, and more. Products are available for a fee; catalog is free of charge. **58**

Geothermal Education Office
664 Hilary Drive
Tiburon, CA 94920
(415) 435-4574
1-(800) 866-4436
Fax: (415) 435-7737

A nonprofit educational organization serving teachers and students nationwide to increase awareness and understanding of geothermal energy.

Provides free booklets, small posters, newsletters, and selected geothermal industry publications (some in class sets). Available for a fee are large posters, an elementary-level video with script and glossary, and a 90-page geothermal curriculum supplement for grades 4 through 8. The curriculum covers the geology, history, and uses of geothermal energy, placed in the context of today's energy needs. Includes copy-ready student information pages; science experiments; math, language, arts, and social studies activities; a glossary; and other suggested resources. **59**

Global Issues Resource Center
East I, Cuyahoga Community College
4250 Richmond Road
Cleveland, OH 44122
(216) 987-2224
Fax: (216) 987-2053

A nonprofit library and educational resource, which works in partnership with foundations, Federal agencies, and school districts, that provides innovative programs and teacher training focusing on global issues, energy, environment, and conflict resolution.

For a fee, the Center provides to primary school and secondary school educators a variety of workshops that address a range of topics and emphasize interdisciplinary and hands-on strategies. The *Energy Choices for the Future* is provided to educators for grades 4 through 7. Teacher and student materials include a "Teacher's Guide and Resource Box." Subject-specific bibliographies (energy, environment, conflict resolution, global issues) are available for a nominal fee. **60**

Hawaiian Electric Company, Inc.
Education & Consumer Affairs Division
900 Richards Street
Honolulu, HI 96813
(808) 543-7511
Fax: (808) 543-4420

An investor-owned electric utility that serves the island of Oahu in Hawaii.

Provides free teaching materials to educators **in the areas served by Hawaiian Electric and its subsidiaries Maui Electric Company and Hawaii Electric Light Company**. Services include classroom programs, career programs, resources for educators, certified workshops for educators, video, and classroom literature for kindergarten through grade 12. "Hawaii's Electric Century," an education module for Hawaiian history classes, is available for use in grades 4, 7, and 11. **61**

Houston Lighting & Power Company
Community Relations/Educational Services
611 Walker
P. O. Box 1700
Houston, TX 77251
(713) 228-9211 or (713) 229-7579
Fax: (713) 220-5016

An investor-owned electric utility, headquartered in Houston, serving a 5,000-square-mile area on the Texas Gulf Coast.

Provides free educational services to kindergarten through grade 12 educators **in the Houston Lighting & Power service area.** Services include classroom presentations, films, videotapes, publications, and activity booklets for students. Resources and newsletters for educators and teacher in-service training, as well as teacher workshops, are also available. In addition, curriculum supplements are available on science and social studies topics and on electricity safety and fuel sources. **62**

Illinois Department of Commerce and Community Affairs
Office of Coal Development and Marketing
325 West Adams, Room 300
Springfield, IL 62704-1892
(217) 785-2800

A State coal program committed to the continued and expanded use of Illinois' coal resources in environmentally safe and economically viable ways.

Provides materials on coal production, distribution, usage, research, development, and demonstration of clean coal technologies. Materials available include: *Coal is Cool Activity Book*, with 60 coal-related puzzles, is recommended for kindergarten through grade 4; *Illinois Coal Teacher's Guide*, developed with lesson plans and hands-on activities for grades 5 through 8; a video, "Kids, Coal and the Environment"; and a poster, What's Coal Got To Do With You? All materials are free. Coal awareness and education efforts target the general public through the media, schools, and special programs in an attempt to diffuse myths regarding coal and to disseminate sound, scientific information. An order form listing all the various publications is available upon request. **63**

Independent Petroleum Association of America
Information Services Department
1101 16th Street, N.W.
Washington, DC 20036
(202) 857-4722
Fax: (202) 857-4799

The national association representing independent crude oil and natural gas explorers/producers.

Provides for a fee an annual yearbook of statistics on the crude oil- and natural gas-producing States. *The Oil & Natural Gas Producing Industry In Your State* compiles exploration and production statistics for each producing State in a simple manner, suitable for junior high and senior high school students. **64**

Indiana Department of Education
Office of Program Development
Center for School Improvement & Performance
Room 229, State House
Indianapolis, IN 46204-2798
(317) 232-9139
Fax: (317) 232-9121

A State education agency that provides primary school and secondary school teachers with staff development programs and curricular assistance in environmental and energy education.

Provides energy, economics, and environmental curricular materials and workshops to kindergarten through grade 12 classroom teachers across Indiana. The *Energy, Economics, and the Environment* publication consists of case studies supported by classroom activities, actions, and issues. *Completing the Cycle-It's Up to Me* contains 55 interdisciplinary lessons that focus on recycling and the environment. This curriculum for kindergarten through grade 8 was written by classroom teachers from Frankfort Community Schools and Crawfordsville Community Schools. The Phase I booklet is designed for use in kindergarten through grade 3, and Phase II is for use in grades 4 through 8. A minimal charge will be assessed for each publication. A list of other environmental and energy education materials is available upon request. 65

The Institute for Chemical Education (ICE)
Department of Chemistry
University of Wisconsin-Madison
1101 University Avenue
Madison, WI 53706-1396
(608) 262-3033
1-(800) 991-5534
Fax: (608) 265-8094
E-Mail: ICE@chem.wisc.edu

A nonprofit educational organization that provides chemistry resources and graduate-level workshops for kindergarten through grade 12 teachers to better integrate hands-on chemistry into their classrooms.

Provides chemistry education materials and workshops to kindergarten through grade 12 teachers throughout the world. The publications, kits, and workshops are designed to help teachers include hands-on science activities in their everyday classrooms. ICE's *Topics in Chemistry* series provides background chemical and environmental information on everyday topics. Topics include: **Acid Rain**—a brief history of acid precipitation; the sources of gases that cause acid rain and their conversion to acid in the atmosphere; details of the effects of acid precipitation on the environment; and available alternatives to reduce emissions that contribute to acid rain. **Acid Rain, Experimental Supplement**—five experiments showing the effects of acid rain on the environment, using easy-to-find materials; notes on presentation and curriculum integration are included. **Ozone**—the chemistry, uses, and importance of ozone and chlorofluorocarbons; a history of theories involving their interactions in the atmosphere; the effect of ozone depletion on life; examination of changes in public policy; and the response of industry. **66**

Integrated Waste Services Association
1401 H Street, N.W., Suite 220
Washington, DC 20005
(202) 467-6240
Fax: (202) 467-6225

Integrated Waste Services Association (IWSA) represents companies that use trash to produce energy as part of a community's integrated solid waste plans. Waste-to-energy facilities use waste to generate enough energy to power 1.3 million homes.

IWSA offers *WasteWorld*, a middle school curriculum addressing environmental, economic, and energy-related issues associated with municipal solid waste management. Originally developed with the support of DOE's National Renewable Energy Laboratory, this multimedia simulation presents a balanced view of source reduction, recycling, waste-to-energy, and landfilling, enabling students to recommend solid waste management plans for their communities. The updated package includes a slide show, interactive computer software for both Macintosh and Windows (also available in color on CD-ROM), revised student activities and teacher's guide, glossary, and resources to supplement student research. Write or call for more information. **67**

Jacksonville Electric Authority (JEA)
21 West Church Street
Jacksonville, FL 32202
(904) 632-5200
Fax: (904) 632-7071

A municipal electric utility serving over 320,000 customers in Jacksonville, FL, and vicinity.

Provides free energy educational resources (booklets, posters, kits, audio/visual materials, etc., for kindergarten through grade 12) to schools **within the JEA service area**. Services include student and teacher materials, speakers, power plant tours, teacher seminars with affiliates: Pelotes Island Preserve, Tree Hill, and the University of North Florida. A free fact sheet that describes the services and materials is available upon request. **68**

Jersey Central Power & Light Company
300 Madison Avenue
Morristown, NJ 07960
(201) 455-8783
Fax: (201) 455-8976

Provides free energy education resources for all grade levels **within the JCP&L service area**. Services available include a speakers' bureau, classroom presentations, and a free-loan video library. **69**

Headquartered in Morristown, NJ, Jersey Central Power & Light Company (JCP&L) serves 13 counties throughout New Jersey. JCP&L is a subsidiary of General Public Utilities Corporation, an investor-owned electric utility based in Parsippany, NJ.

Johnson Controls, Inc.
Academy of Energy Education
507 E. Michigan Street
Milwaukee, WI 53202
(414) 274-4197
(414) 274-5574
Fax: (414) 274-5030
E-Mail: mike.d.ewald@jci.com
michelle.l.tanem@jci.com

Offers, in partnership with the National Energy Foundation and Upper Iowa University, the Academy of Energy Education, a curriculum-enhancing program that promotes energy education in kindergarten through grade 12 and expands into a school-to-work transition experience. Designed to encourage students to explore energy usage and its impact on the environment, the programs include: Energy Fun for kindergarten through grade 3; Energy Fundamentals for grades 4 through 6; Energy Action Patrol for grades 5 through 8; Energy Action Teams for grades 6 through 9; and Energy Action Technology for grades 9 through 12. For older students, the Academy features school-to-work and high school-to-college transition programs. For more information, call your local Johnson Controls office or NEF at 1-(800) 616-TEAM. **70**

Provides facility services and building control system solutions to meet the specific needs of all types of nonresidential buildings, which include training staff to operate equipment more efficiently, installing, maintaining, and servicing HVAC controls and mechanical systems, lighting controls, and life safety systems; performance contracting; and complete outsourcing operations.

Keep America Beautiful, Inc.
9 West Broad Street
Stamford, CT 06902
(203) 323-8987

A national nonprofit public education organization that is dedicated to improving waste-handling practices in American communities.

Offers educational materials for use in kindergarten through grade 12. *Waste in Place*, a curriculum supplement for educators of kindergarten through grade 6, introduces children to responsible waste handling in over 30 hands-on lesson plans; and *Waste: A Hidden Resource*, a curriculum supplement for educators of grades 7 through 12, provides an overview of solid waste and encourages students' investigation and decisionmaking through role-playing in a mock crisis. Both are available for a fee. Other resources include *Plastics Recycling By The Numbers*, a classroom activity guide designed to teach students in grades 3 and 4 about plastic and its uses, the Plastic Container Coding System, and how to separate plastics for recycling; *Mister Rogers' Activity Book for Young Children*, which provides lessons on reuse and recycling; and "Pollution Pointers For Elementary Students," a one-page fact sheet which describes 24 things children can do. "Woody's Wise Waste Handling Tips for Kids" provides simple projects children can perform at home and in the classroom. These are available for a nominal fee. A free materials catalog is available upon request. **71**

Kids For A Clean Environment (Kids F.A.C.E.)
P.O. Box 158254
Nashville, TN 37215
1-(800) 952-3223
Fax: (615) 333-9879

A nonprofit children's environmental organization.

Provides free membership to children and teachers. Included with membership is the membership guide *Our World, Our Future: A Kids Guide to Kids for a Clean Environment*; a membership certificate; and a subscription to the bimonthly newsletter *Kids F.A.C.E. Illustrated*. Material focuses on environmental topics and offers proactive projects that can be performed at home or at school. Their current project is the Kids International Earth Flag. Children may send in squares with their idea of a clean environment drawn or painted on them. For instructions, send a self-addressed stamped envelope to the above address. **72**

Kissimmee Utility Authority (KUA)
Office of Communications
P.O. Box 423219
Kissimmee, FL 34742-3219
(407) 933-7777
Fax: (407) 933-1761

A municipal electric utility serving over 45,000 customers in Kissimmee, FL, and vicinity.

Provides free energy educational resources (coloring books, booklets, calendars, posters, kits, audio/visual materials, etc., for use in kindergarten through grade 12) to schools **within the KUA service area**. Services include student and teacher materials, speakers' bureau, power plant and energy control center tours, and teacher seminars with neighboring utilities. A free color brochure highlighting the services and materials is available upon request. **73**

The Learning Works
P.O. Box 6187, Dept. NEIC
Santa Barbara, CA 93160
(805) 964-4220
Fax: (805) 964-1466

A publishing firm specializing in children's educational books.

Publishes educational activity books for youth ages 4 to 17. Energy-related titles include: *Weather, Electricity, Environmental Investigations; Science Sampler; Primary Science Sampler; Earth Book for Kids: Activities to Help Heal the Environment; My Earth Book;* and *Likeable Recyclables.* In addition, stamps with environmental themes are available for a fee and may be ordered from school supply stores, bookstores, or the publisher. A free catalog is available upon request. **74**

Midwest Renewable Energy Association
P.O. Box 249
Amherst, WI 54406
(715) 824-5166
Fax: (715) 824-5399

A grassroots private nonprofit educational organization dedicated to promoting renewable energy and energy efficiency through education and demonstration.

Offers special workshop series for teachers, children, and the general public. Hosts the Midwest Renewable Energy Fair every June at the Portage County Fairgrounds in Amherst, WI. This annual event features workshops, exhibits, speakers, a model home, renewable energy home tours, alternatively fueled vehicle showcase, regional Junior Solar Sprint competition, entertainment, and more. Offers year-round workshops on renewable energy and energy efficiency. A Renewable Energy/Energy Efficiency Directory is available for a minimal fee, as is *ReNews,* a quarterly newsletter. *Bright Ideas,* a children's newsletter, is available with the purchase of a children's membership. **75**

Mineral Information Institute (MII)
475 17th Street, Suite 510
Denver, CO 80202
(303) 297-3226
Fax: (303) 295-6463

A nonprofit educational organization providing free resources and contacts to support classroom teachers. Also provides technical support to new and established earth science programs.

Provides minerals and energy information at no cost to teachers. Companies and other organizations may purchase MII materials at a nominal cost. Materials include posters, lessons, activities, and referrals to other sources providing free or low-cost educational information. The purpose of all materials is to increase awareness that *Everything We Have and Everything We Use Comes From Our Natural Resources.* MII sponsored and continues to support revisions to the high school integrated science textbook *Global Science: Energy, Resources, Environment.* **76**

Minnesota Department of Public Service
121 7th Place East, Suite 200
St. Paul, MN 55101-2145
(612) 296-5175
Fax: (612) 296-0201

A State energy office which protects the public in utility rate and quality of service matters, provides a range of energy information, and promotes conservation and renewable resource development.

Provides a wide range of energy conservation materials (primarily brochures and fact sheets) targeted to residential, commercial, and industrial audiences. This information is designed to encourage specific conservation practices and to increase public awareness of energy/environmental issues. Some of these free materials may be appropriate for students in grades 8 through 12. More direct education efforts are geared toward Minnesota home builders and community energy auditors. The Department's Energy Information Center has a full-time staff to answer consumers' energy-related questions and to provide individualized advice as needed. **77**

National Aeronautics and Space Administration (NASA)
300 E Street, S.W., Code FE
Washington, DC 20546-0001

A Federal agency with programs to advance the Nation's education goals through expanding and enhancing the scientific and technological competence of all students and educators.

Provides to educators free of charge: teachers guides with classroom activities explaining NASA spaceflights and projects; NASA educational program information; NASA fact sheets; educational briefs; brochures; lithographs; wallsheets; nontechnical publications; and access to videotapes and slide sets for duplication. New NASA educational materials are listed triennially in the newsletter *Educational Horizons*, which is provided to educators. Educators can obtain a subscription from NASA at the address listed above. **78**

National Arbor Day Foundation
100 Arbor Avenue
Nebraska City, NE 68410
(402) 474-5655
Fax: (402) 474-0820

A nonprofit education organization dedicated to tree planting, conservation, and environmental stewardship.

Provides free information on tree planting and care, including correctly planting windbreaks and shelterbelts, in the *Conservation Trees* and *Trees for America* brochures. Also has available for a nominal fee a book on *Trees for Fuelwood: A Step Toward Energy Diversity*, and, for elementary school- and middle school-age children, curriculum kits that stress the contributions made by trees and the importance of environmental stewardship. For samples of the free educational materials, including the *Celebrate Arbor Day!* booklet, and to receive information about the curriculum kits, write or call to request an *Educational Materials Sampler*. **79**

National Association of Conservation Districts (NACD)
408 East Main
P.O. Box 855
League City, TX 77574-0855
(713) 332-3402
1-(800) 825-5547
Fax: (713) 332-5259

A nongovernmental nonprofit organization representing nearly 3,000 soil and water conservation districts and their State associations in the 50 States and U.S. territories. NACD serves its member districts as one voice, utilizing the force of local initiative and self-government, in the conservation and development of natural resources.

Sponsors conservation education recognition programs for primary school and secondary school teachers as well as a poster contest for students. Publishes and distributes educational materials about conserving soil and water and other natural resources. Free materials include an education catalog containing all educational products available from NACD, information about the contest, and single copies of the *Guide to Careers in Natural Resource Management*. **80**

National Center for Appropriate Technology
P.O. Box 3838
Butte, MT 59701
(406) 494-4572
Fax: (406) 494-2905

A nonprofit organization founded in 1976 that works in the areas of energy conservation and renewable energy technologies, resource-efficient housing, and sustainable agriculture.

Provides a curriculum guide of experiments, readings, projects, and resource referrals for a course in photovoltaic technology. These materials are targeted for junior high school and high school science classes. The curriculum guide is based on the Science, Technology, and Society (STS) model. Educational materials on energy conservation and efficiency and sustainable communities are also available. **81**

National Corn Growers Association
1000 Executive Parkway, #105
St. Louis, MO 63141
(314) 275-9915
Fax: (314) 275-7061

A nonprofit commodity organization representing more than 29,600 corn farmers and 24 State-affiliated corn grower associations.

Provides teachers with a free educational kit, "Corn–A National Renewable Resource," which includes materials that recognize corn as a reservoir of energy and a renewable substitute for products made from expendable fossil fuels. Components of the kit include 30 student tabloids, a video, poster, resource booklet, activity sheets, sample experiments, and corn products. Accompanying Teacher's Guides provide supplementary information and integration ideas. *The World of Corn* resource booklet, a statistical look at corn markets and trends, can also be requested separately and is provided free by contacting the association. **82**

National Cotton Council of America
Education Materials
1918 N. Parkway
Memphis, TN 38112
(901) 274-9030

A nonprofit commodity organization representing 35,000 producers and processors of raw cotton. The organization is dedicated to strengthening the cotton industry's ability to compete effectively and profitably in fiber and oilseed markets at home and abroad.

Provides for a nominal fee a variety of print and audiovisual materials on cotton, including a videotape about the highly successful and environmentally sound "National Boll Weevil Eradication Program." The tape, primarily for grades 3 through 12, includes a 3-minute program aired on the "Today's Environment" television series on the Discovery Channel. The eradication program uses an integrated approach for eliminating one of the U.S. cotton industry's major pests, such as plowing down cotton stalks after harvest, the strategic placement of traps baited with a pheromone (sex attractant), and the judicious application of crop protection products. **83**

National Energy Education Development Project (NEED)
1920 Association Drive, Suite 414
Reston, VA 22091
(703) 860-5029
Fax: (703) 860-2903

A national network of students, educators, and leaders in government and industry dedicated to providing comprehensive energy programming.

Through hands-on science, math, museums, drama, art, and music, students reach out to family and community with energy education programs that they have developed themselves. Memberships are available to teachers at little or no cost. Members can receive the following: the "Local Participation Kit"—a curriculum packet filled with hundreds of activities; energy and leadership training workshops across the United States; a subscription to *Energy Exchange* magazine; the opportunity to order a variety of supplemental materials free of charge; and the chance to participate in the Annual Youth Awards Program—a program dedicated to recognizing the most creative and innovative energy programs in the United States. New activities for the 1995-1996 school year include: Where in the U.S. is all the Energy?--a mapping activity to help students locate the Nation's energy resources; *The Blueprint for Energy Education*—the curriculum guide that helps teachers and students facilitate energy education programs in their schools and communities; Energy Around the World—an interactive activity that encourages students to look at the global energy picture; and Energy Math Challenge—a math reinforcement activity that uses energy facts and figures to educate and challenge. Also offered for a reduced cost will be a set of videos focusing on Renewable Energy/Energy Conservation and Fossil Energy. In fall 1996, the 1996-1997 materials will be released with a series of new activities.

84

National Energy Foundation (NEF)
Resources for Education
National Office
5225 Wiley Post Way, Suite 170
Salt Lake City, UT 84116
(801) 539-1406
Fax: (801) 539-1451
E-Mail: nef@xmission.com
Web: http://www.xmission.com/~nef

A nonprofit educational organization providing educational resources and training services to educators.

Offers a wide variety of energy, environmental, and mineral resource education materials for kindergarten through grade 12. New items include a new curriculum called *Decision Making in a Multiple Use Environment*, which uses a Montana case study to explore today's multifaceted land use debates; educational posters including *Aggregates: Nature's Building Blocks; Coal Technology: The Future is Now; De Montanas a Metales* (Spanish versions of *From Mountains to Metals*); as well as updated versions of the Nuclear Energy, Coal, and From Mountains to Metals posters; and updated versions of the *Coal, Oil,* and *Nuclear Energists*, which are newspaper-style teaching tools. NEF also offers in-service training programs so NEF materials can be properly used and integrated into the existing school curriculum. Some of those programs include: Energy Action in Schools; Learning to be Wise; and Out of the Rock. Materials can be purchased in single issues or in bulk. In-service programs are tailor-made to the school system and sponsoring agency budget requirements. A materials catalog is available free upon request. **85**

National Geographic Society
Educational Services
1145 17th Street, N.W.
Washington, DC 20036
1-(800) 368-2728
Fax: (301) 921-1575

A nonprofit organization.

Provides educational materials designed for the kindergarten through grade 12 earth, physical, and environmental sciences curriculum. Materials include filmstrips, videos, books, learning kits, interactive videodiscs, and CD-ROM's. The National Geographic Kids Network, a telecommunications-based science curriculum for elementary school-grade levels, is also available. Free catalogs are available upon request. **86**

National Mining Association
1130 17th Street, N.W.
Washington, DC 20036
(202) 463-2625
Fax: (202) 857-0135

A trade association representing producers of America's coal, metals, industrial minerals, and agricultural minerals; mining equipment manufacturers; and engineering, consulting, and financial institutions that serve the mining industry.

Provides educational materials on mining in the United States and the importance of minerals in our daily lives. A video, "Mining: Discoveries for Progress," and a brochure, *What Mining Means to Americans*, are available for a fee and for free, respectively, to the general public. Both are available free to a teacher requesting them on school letterhead. Other materials are available upon request. **87**

National Propane Gas Association
1600 Eisenhower Lane, Suite 100
Lisle, IL 60532
(708) 515-0600
Fax: (708) 515-8774
E-Mail: npga@genie.geis.com

A national trade association comprising 3,600 companies representing all aspects of the propane industry.

Provides environmental, safety, and propane industry information in fact sheets, a coloring book, and an activity book. Also available are an Energy Costs Comparison Calculator and four propane gas student education kits: one for use in kindergarten through grade 3; in grades 4 through 6; in junior high school; and in high school. **88**

National Rural Electric Cooperative Association
Communications Department
4301 Wilson Boulevard, CD10-222
Arlington, Virginia 22203
(703) 907-5709
Fax: (703) 907-5519

A service organization based in Arlington, VA. Represents the Nation's 1,000 nonprofit consumer-owned rural electric systems, which provide electric service to more than 25 million people in 46 States.

Provides educational booklets and pamphlets aimed at junior and senior high school students (as well as adults). Publications include *History of Rural Electrification; Energy and Electricity* (includes a home safety audit); *Facts About America's Rural Electric Systems;* and *Occupations in Rural Electrification.* Publications are for sale. An order form for the materials is available upon request. **89**

National Science Foundation
Office of Legislative and Public Affairs
4201 Wilson Boulevard, Room 1245
Arlington, VA 22230
(703) 306-1070
Fax: (703) 306-0157
E-Mail: nstw@nsf.gov

A Federal agency that supports basic science and engineering research and education.

National Science and Technology Week (NSTW), a collaborative effort of the National Science Foundation and corporate sponsors, features partnerships with community institutions (e.g., schools, libraries, museums, zoos); a special focus activity encourages parents to join their children in discovering science in their everyday activities and interests. Materials include an NSTW annual poster, "training activities" packets, and "sharing science" brochures that alert the public to scientific discovery. Activities and materials promote: (1) the sharing of information on science curriculum and education trends; (2) developing "Science Day" activities; (3) organizing community-wide contests or events; and, (4) recruiting scientific and technical personnel to advise children about careers. **90**

National Science Resources Center (NSRC)
Arts and Industries Building, Room 1201
Washington, DC 20560
(202) 357-2555
Fax: (202) 786-2028

NSRC is operated by the Smithsonian Institution and the National Academy of Sciences to improve the teaching of science in the Nation's schools.

Collects and disseminates information about exemplary science teaching resources, develops innovative science curriculum materials, and sponsors outreach activities to help school districts develop and sustain hands-on science programs. Relevant titles include: *Resources for Teaching Elementary School Science*, an elementary science resource guide; *Electric Circuits, Magnets and Motors*; and *Ecosystems*, inquiry-centered curriculum units in the Science and Technology for Children (STC) elementary science program. **91**

National Science Teachers Association
Publications
1840 Wilson Boulevard
Arlington, VA 22201
(703) 243-7100
1-(800) 722-NSTA
Fax: (703) 243-7177
Web: http://www.nsta.org

The largest science teachers association in the United States, working to improve the quality of science education nationwide.

Publishes educational products and activity books for students from kindergarten through college. Titles include: *Earth: The Water Planet; Water, Stones & Fossil Bones; Ten-Minute Field Trips; Energy Sources and Natural Fuels; Taking Charge: An Introduction to Electricity; Water Matters; Middle Level Energy Series; Project Earth Science: Astronomy; Project Earth Science: Meteorology; Project Earth Science: Physical Oceanography; Project Earth Science: Geology; Earth At Hand;* and *Understanding Our Environment*. These books are available for a fee. A free catalog is available upon request. **92**

National Wildlife Federation
8925 Leesburg Pike
Vienna, VA 22184-0001
1-(800) 432-6564
Fax: (703) 442-7332

A nonprofit conservation education organization. The mission of the National Wildlife Federation is to educate, inspire, and assist individuals and organizations of diverse cultures to conserve wildlife and other natural resources and to protect the earth's environment in order to achieve a peaceful, equitable, and sustainable future.

Publishes *Your Big Backyard, Ranger Rick, National Wildlife,* and *International Wildlife* magazines for children and adults; produces the environmental education activity series *NatureScope* for educators; sponsors *National Wildlife Week* Educator's Guide; and produces *Animal Tracks Activity Guide* for educators, a companion book for children, and Animal Tracks educator resource on the World Wide Web (http://www.nwf.org/nwf). Call toll-free and ask for more information on our educational outreach programs. **93**

The Natural Gas Vehicle Coalition
1515 Wilson Boulevard, Suite 1030
Arlington, VA 22209
(703) 527-3022
Fax: (703) 527-3025

A national trade association and commercialization organization supported by gas companies, natural gas vehicle equipment suppliers, local government agencies, and other companies committed to developing profitable, long-term markets for natural gas vehicles.

Acts as a clearinghouse for information on natural gas vehicles for members and the general public. General information packets and the *Member Business Guide*, a list of member equipment suppliers and the products and services they provide, are available free of charge. Also available for a nominal fee is "The Road to Clean Air," a 12-minute educational video which features actress Lindsay Wagner describing the virtues of natural gas vehicles. **94**

New York Power Authority
Nuclear Communications
123 Main Street
White Plains, NY 10601
(914) 681-6822

The New York Power Authority's mission is to furnish the people of New York State with lower-cost electricity.

Provides free educational programs and resources for primary school and secondary school educators in New York State. Maintains four visitor centers that conduct educational programs, including site tours. Resources include computer software simulating producing and distributing electrical power for grades 6 through 8; videos on energy and the environment; programs such as "Make Your Home a Castle," an energy efficiency kit for grades 4 through 6; and literature to support energy education. Opportunities for teachers include graduate-level Institutes in Energy Education, Science/Technology/Society workshops, business-education partnerships, and a unique "loaned-teacher" program. For additional information, write to New York Power Authority, Education Programs, 99 Washington Avenue, Suite 1950, Albany, NY 12210, or call (518) 427-6580. **95**

New York State Geological Survey
3136 Cultural Education Center
Albany, NY 12230-3136
(518) 474-5816
Fax: (518) 473-8496
E-Mail: rfakundi@museum.nysed.gov

The mission of the New York State Geological Survey is to make services available to all agencies and people of New York State; conduct geological research; and cooperate with agencies of other States, Federal Government, educational institutions, and industry in the discovery, analysis, and dissemination of geologic information.

Provides free educational leaflets for both students and teachers for kindergarten through grade 12. Provides a limited number of honoraria for college-level geological research in New York State. Conducts workshops and classes in geological sciences through the New York State Museum in Albany, NY. Produces geological maps and reports for both professionals and the general public. A catalog of publications is available free upon request. **96**

The NoodleHead Network
107 Intervale Avenue
Burlington, VT 05401
1-(800) 639-5680
(802) 862-8675
Fax: (802) 864-7135
E-Mail: noodlhed@together.net
Web: http://www.together.com/~noodlhed

An educational video producer and distributor that creates videos from a kid's viewpoint.

Produces and distributes educational videos for kids. Specializes in energy-related videotapes for utilities and the kindergarten through grade 12 school market. Kids play an integral role in the creation of each tape—from scriptwriting to acting to editing. Titles include: "Simple Things You Can Do To Save Energy," "Simple Things You Can Do To Save Energy In Your School," and "KnuckleHead's Electrical Safety Series." Videos are available for purchase in VHS format or with duplication and broadcast rights. Free catalogs and preview copies of the videos are available upon request. **97**

Northeast Utilities
Community Relations-Educational Programs
P.O. Box 270
Hartford, CT 06141-0270
(203) 665-2752
Fax: (203) 444-4283

An investor-owned electric utility serving Connecticut, western Massachusetts, and New Hampshire.

Provides educational services free to educators and organizations **in the areas served by Northeast Utilities**. Offers visits to information centers, tours, classroom presentations, nature trails and environmental education, speakers' bureau, safety presentations, film/video- and computer software-lending libraries, energy/nuclear energy curriculum and related literature, teacher workshops, and teaching kits. Booklets and posters for kindergarten through grade 12 are available. Also has pamphlets on home appliances, insulation, heating and cooling, and weatherization.

Connecticut Yankee Information & Science Center
362 Injun Hollow Road
Haddam Neck, CT 06424-3099
(203) 267-9279
1-(800) 348-INFO (CT only)

Millstone Information & Science Center
278 Main Street
Niantic, CT 06357
(860) 691-4670
1-(800) 428-4234 (CT only)
Fax: (860) 691-4676

Northfield Mountain Recreation & Environmental Center
99 Millers Falls Road
Northfield, MA 01360
(413) 659-3714
Fax: (413) 659-4460

Public Service of New Hampshire
1000 Elm Street
P.O. Box 330
Manchester, NH 03105
(603) 669-4000

The Science & Nature Center at Seabrook Station
Box 300, RT 1
Seabrook, NH 03874
(603) 474-9521, Ext. 2727
1-(800) 338-7482 (New England only)
Fax: (603) 474-9521, x 2782

Northern Indiana Public Service Company
Corporate Citizenship
ATTN: Educational Services
5265 Hohman Avenue
Hammond, IN 46320
(219) 647-6215
Fax: (219) 647-4010

A regulated electric and natural gas public utility serving the northern third of Indiana.

Provides, free to primary school and secondary school educators **within its service territory**, power plant tours, films, videos, publications, activity booklets, and, upon request, a *Teaching Resources Catalog*. **99**

Northern States Power Company
Community and Economic Development Department
414 Nicollet Mall (RS4)
Minneapolis, MN 55401
(612) 330-6677 (work-based learning)
(612) 330-6538 (speakers)
(612) 330-6048 (tours)
(612) 330-7976 (energy safety demos)

An investor-owned electric and natural gas utility serving parts of Minnesota, Wisconsin, North Dakota, South Dakota, and northern Michigan.

Provides educational services free to educators **in the areas served by Northern States Power Company**. Offers visits to two nuclear plant training centers and Minnesota's largest coal-fired plant; environmental education curriculum; speakers' bureau; job shadowing; and career exploration. **100**

Nuclear Energy Institute
1776 I Street, N.W., Suite 400
Washington, DC 20006-3708
(202) 739-8000
Fax: (202) 785-4019
E-Mail: jcn@nei.org

Based in Washington, DC, the Nuclear Energy Institute (NEI) is a trade association of the nuclear energy industries.

Provides a variety of publications on nuclear energy issues, including the benefits of electricity generated by nuclear power, public opinion data on nuclear energy, and statistical data on nuclear energy. Complimentary packets of material are available for students and teachers. A complimentary booklet on nuclear energy is available to the general public. For more information, contact the NEI Publications Office. **101**

Nuclear Information and Resource Service
1424 16th Street, N.W., Suite 601
Washington, DC 20036
(202) 328-0002
Fax: (202) 462-2183
E-Mail: nirsnet@igc.apc.org
Web: http://www.essential.org/nirsnet/

A nonprofit information clearinghouse.

Furnishes fact sheets on nuclear waste, safety, general information, and alternative energy. Single copies are available. Free brochures available include *10 Basic Questions About Nuclear Power* and *Nuclear Power? Consider the Alternatives. The NIRS Energy Audit Manual: How to Audit Campus & City Buildings*, also available for a fee, includes chapters on lighting efficiency, heating, and air conditioning designed to help students calculate energy and cost savings for their school (high school and above). Current information on nuclear industry and events is available, as well as a catalog of related articles. **102**

OG&E Electric Services
Community Services
P.O. Box 321 MC 1204
Oklahoma City, OK 73101
(405) 553-3015
Fax: (405) 553-3508

An investor-owned electric utility serving parts of Oklahoma and western Arkansas.

Provides educational materials free to educators **in the areas served by OG&E Electric Services**. Materials include films/videos, literature, multimedia kits with teacher/student materials. Activity booklets and a teacher resource guide are also available. **103**

Omaha Public Power District
Consumer Relations Department
444 South 16th Street Mall
Omaha, NE 68102-2247(402) 636-3747
Fax: (402) 636-3922

A public utility serving the electric needs of customers in eastern Nebraska.

Provides educational services free of charge to schools **in the utility's service area**. Services include classroom programs and speakers, career planning information, films/videos, tours of power plants and other facilities, and literature for students and teachers in all grades. Also provides information on Omaha Public Power District's Buddy Alert and Safetysaurus Programs. All materials available upon request. **104**

Pacific Gas & Electric Company
Customer Energy Management Department
444 Market Street, Room 1634 - T16A
P.O. Box 770000
San Francisco, CA 94177
(415) 973-2232
Fax: (415) 973-4607
E-Mail: SLF1@PGE.com

An investor-owned utility serving more than 4 million residential customers.

Provides the *Energenius Educational Series*, a complete curriculum focusing on energy efficiency and gas and electric safety education for grades 1 through 8. Curriculum materials **are provided at no cost to schools within the service territory** and can be purchased by schools, utilities, and organizations outside Pacific Gas & Electric's service territory. *Energenius Educational Series* comes complete with teacher curriculum guide and student activities for each student. The core of the series consists of multi-lesson classroom programs designed to engage students in active, age-appropriate learning and to relate to pace-setting curriculum standards such as those of the State of California. Games and activities can be used inside or outside the classroom and involve both young people and their families. **105**

Pennsylvania Power & Light Co.
Energy Education Coordinator, A9-4
Two North Ninth Street
Allentown, PA 18101-1179
(610) 774-6914
Fax: (610) 774-6503

An investor-owned electric utility serving all or parts of 29 counties covering a 10,000-square-mile area in central eastern Pennsylvania.

Provides free energy education teaching materials to educators **in the utility's service area**. Materials include kindergarten through grade 12 curriculum units (teacher workshops required), Nuclear Energy Seminar for Teachers (NEST: worth 3 continuing education credits), Teacher Environmental Awareness (TEA) workshops, electrical safety programs (including a student poster contest), a minigrant program for teachers (up to $500 funding), *Energy in Education* newsletter, College Energy Debate program, Electric Vehicle teachers guides (kindergarten through grade 12), and *Electric and Magnetic Field* teachers guide (grades 7 through 12). Write or call for schedules of programs or for more information. **106**

Polystyrene Packaging Council
1275 K Street, N.W.
Suite 400
Washington, DC 20005
(202) 371-2487
Fax: (202) 371-1284

A nonprofit trade association dedicated to providing information about environmentally responsible methods of solid waste disposal for polystyrene and the growing number of polystyrene recycling programs nationwide. Polystyrene Packaging Council's membership includes manufacturers of polystyrene resin, polystyrene foam and rigid food service packaging, and polystyrene protective shape-molded and loose-fill packaging.

Offers *The Polystyrene Packaging and the Environmental Sourcebook*, an easy-to-use reference guide for teachers that includes descriptions of available materials involving plastics and the environment. Also offers age-specific classroom activities, which were prepared with the guidance of science teachers nationwide, that look at the role of plastics in our everyday lives. One copy is available free of charge. **107**

Procter & Gamble
Educational Services
P.O. Box 14009
Cincinnati, OH 45250-0009
(513) 945-8450
Fax: (513) 945-8979

Public Affairs Division of a consumer products company.

Offers the free environmental education teaching kit "Planet Patrol" for grades 4 through 6. Materials teach students how to be a part of the solution to America's growing solid waste crisis. The teaching unit includes teacher's guide, student worksheets, and classroom poster. **108**

The Radon Group, Ltd.
P.O. Box 80653
Portland, OR 97280-1653
(503) 245-7092
Fax: (503) 245-7092

Hands-on energy education program developers and distributors.

Provides easy-to-use "hands-on" kits meeting Education 2000 goals. Products work with all major science texts. Kits contain teacher guide, student masters, vocabulary, and hardware. Titles include the following: "Energy Efficiency Kits" for grades 4 through 9; Conservation Program for grades 10 through 12; "Electricity/Safety Kit"/video for grades 3 through 8; "Nuclear Energy Kit" for grades 4 through 9; and "Renewable Kits" for grades 3 through 8. Custom teacher in-service programs are sponsored by participating utilities. Materials are provided free of charge by most utilities. Products may be purchased directly from the company. A free catalog is available. **109**

Renew America
1400 16th Street, N.W., Suite 710
Washington, DC 20036
(202) 232-2252
Fax: (202) 232-2617
E-Mail: renewamerica@igc.apc.org

The Nation's source for environmental solutions.

Promotes successful environmental programs to foster their replication and expansion. Publications available for purchase include the *Environmental Success Index*, a directory of more than 1,600 verified programs; and topic reports on various environmental topics. *Kids! Renew America* is also available free of charge. **110**

Safe Energy Communication Council
1717 Massachusetts Avenue, N.W.,
Suite 805
Washington, DC 20036
(202) 483-8491
Fax: (202) 234-9194
E-Mail: seccgen@aol.com

A national nonprofit coalition fighting for environmentally safe, affordable energy.

Offers a free poster with everyday suggestions on how to save the earth. Publications and graphics that deal with a variety of issues, such as nuclear power, nuclear waste dangers, global warming, energy efficiency, and renewable energy, are available for a nominal fee. Titles include: *MYTHBusters #8: "Low-Level" Radioactive Waste; MYTHBusters #9: Nuclear Power Economics;* and *Power Boosters: Ohio's Energy Efficiency Success Stories.* Request a publications list for other titles. Also available are safe energy science project ideas. **111**

Science Screen Report
1000 Clint Moore Road
Boca Raton, FL 33487-2806
1-(800) 232-2133
Fax: (407) 241-0707

The only videotape program made available free of charge to schools through corporate sponsors.

An ongoing secondary school-level videotape program that focuses on the most recent developments in science, technology, and engineering. Produced since 1970 with the active participation of the National Science Teachers Association, "Science Screen Report" (SSR) is designed to stimulate student interest in the challenges, rewards, and opportunities of pursuing scientific careers. More than 550 corporations currently sponsor "SSR" to 3,000 school districts nationwide. Tapes become the permanent property of the school system to allow repeated use year after year. **112**

Science Service, Inc.
1719 N Street, N.W.
Washington, DC 20036
(202) 785-2255

Founded in 1921, a nonprofit scientific and educational organization that promotes scientific literacy, with special emphasis toward young people and, more recently, members of under-represented groups.

Science Service, Inc., administers two youth programs. The International Science and Engineering Fair (ISEF) is a competition for students in grades 9 through 12. Students participate in their regional and/or State ISEF-affiliated fair. Two individual student projects and one team project of up to three students are chosen to participate in the ISEF. Participants are eligible for scholarships, scientific field trips, summer research internships, and equipment. The Westinghouse Science Talent Search (STS) awards $205,000 in scholarships to 40 finalists. Top prize is a $40,000 scholarship. Participants must be seniors in high school. Students submit a report of an independent research project in the sciences, official entry form, transcript, test scores, and teacher recommendations. Early December is the deadline for entry materials. For an official entry form and specific deadline, contact Science Service, Inc. **113**

SC Johnson Wax
Marketing Public Relations Department
1525 Howe Street
Racine, WI 53403
(414) 631-2960
(414) 631-4709
Fax: (414) 631-3829

A family-owned, global manufacturer of products for the home and workplace with world headquarters in Racine, WI.

"Ozone: The Hole Story," a packet that includes a video and teaching materials developed for high school science classes, is available for a small fee. To order, call 1-(800) 243-6877. This packet presents the history and status of the use of chlorofluorocarbons, their possible effect on the thinning of the upper ozone level, and some practical solutions.

"Time and Time Again," a video and teaching unit developed in partnership with John Marshall High School, focuses on the role of recycling within the concept of solid waste management. The video was researched, written, and produced by John Marshall students to communicate new information about recycling to other high school students. "Time and Time Again" explains exactly which materials are fully recyclable—including empty steel aerosol cans, aluminum cans, glass and plastic bottles, and paper products. The teaching unit provides up to a week's activities and information on initiating a recycling campaign at school. "Time and Time Again" is available for a fee. To order the packet, call MODERN Distribution Service at (800) 237-4599. **114**

Shell Oil Company
Corporate Communications
P.O. Box 2463
Houston, TX 77252-2463
(713) 241-6161

Oil company department that responds to public inquiries pertaining to energy and environmental issues.

Offers *Oil*, a booklet describing the origin of oil and its production, conversion to thousands of products, and distribution to customers around the world. Also available are *A Story of Achievement*, a brief history of the Shell Oil Company, and *Let's Collect Rocks and Shells*. Booklets are free of charge, but quantities are limited. **115**

Simon and Schuster Children's Publishing Division
Educational Marketing
1230 Avenue of the Americas, 4th Floor
New York, NY 10022
(212) 698-2806
Fax: (212) 698-4350

A children's trade book publisher of both fiction and nonfiction titles for kindergarten through grade 12.

Offers a variety of energy, science, and environmental books from 11 imprints, including such titles as: *Nuclear Energy* by Pringle; *Understanding Radioactivity* by Milne; *Weather Forecasting* by Gibbons; *The Big Storm* by Hiscock; and *Before the Sun Dies* by Gallant. Provides free paperback and backlist catalogs. **116**

SME
P.O. Box 625002
Littleton, CO 80162-5002
(303) 973-9550
1-(800) SME-3132
Fax: (303) 973-3845
E-Mail: smeaime@aol.com

A nonprofit educational organization providing educational resources related to energy, minerals, and mining. The Society for Mining, Metallurgy & Exploration, Inc., (SME) is the worldwide professional society for mining engineers.

Offers both free and for-sale materials including classroom resource guides, posters, videos, and computer programs. Also can provide teachers with contacts among SME members in most geographic locations who are willing to help in teaching about minerals and mining. **117**

Smith College
Elm Street
Northampton, MA 01063
(413) 584-2700
Fax: (413) 585-2075

A private academic institution.

Offers the project An Electricity Curriculum Based on Capacitor-Controlled Transient Lamp Lighting, which reveals the physics of current propulsion. This high school electricity curriculum engages students in hands-on experimentation. It includes three instructional aids (*Introductory Workshop Guide, Classroom Resources Book,* and *Background Information File*) which enhance the teacher's own understanding of electric circuits and make the study of electricity enjoyable for students. **118**

Solar Energy Industries Association
122 C Street, N.W., 4th floor
Washington, DC 20001
(202) 383-2600
Fax: (202) 383-2670
E-Mail: 71263.377@compuserve.com

A nonprofit national trade association which represents the photovoltaic and solar thermal manufacturers and component suppliers.

Publishes *Renewable Energy Fact Sheets,* which includes information and classroom activities. Also produces *Solar Science Activities,* which includes dozens of classroom activities for grades 5 through 9, and *Energy, Technology and Society,* which is geared for high school students and provides information on alternative energy technologies. All are available for a fee. A free publications catalog is available upon request. CD-ROM educational modules are available through the Solar Energy Research and Education Foundation. **119**

The Solar Now Project
Academic Center
376 Hale Street
Beverly, MA 01915
(508) 927-0585 x2140
Fax: (508) 927-9000 x3140

A national nonprofit organization providing low-cost education about all forms of renewable energy to teachers, students, and environmentalists.

Provides programs for students, educators, and others interested in energy and the environment, using one of the Nation's largest operating photovoltaic fields and an extensive energy education laboratory for hands-on activities. Offers teacher training workshops; summer internships for college students; East Coast Junior Solar Sprint headquarters; student and teacher conferences; renewable energy feasibility studies; tours and field trips; a complete library of renewable energy educational materials; and promotional programs fostering the use of renewable energy. Call for more information and a schedule of upcoming events. **120**

Steel Recycling Institute
680 Andersen Drive
Pittsburgh, PA 15220-2700
1-(800) 876-7274

An industry association dedicated to promoting and sustaining steel recycling across the country.

Provides materials for primary school and secondary school educators. Materials include *Nature's for ME*, a preschool workbook filled with recycling and nature-related interactive exercises; "YES I CAN!," a video and teacher's guide for grades 1 through 3; and *Cycles for Science*, a high school curriculum supplement for Biology, Chemistry, Earth/Life Science and Physics, and a community volunteer activities guide to support the program. Information and prices are available through order forms. Additional materials such as activity sheets (black line masters), a coloring poster, and a wall poster are available. If responding in writing, please indicate grade level(s) for which materials or order forms are needed. **121**

The Sugar Association, Inc.
1101 15th Street, N.W., #600
Washington, DC 20005
(202) 785-1122
Fax: (202) 785-5019

Established in 1943, the Sugar Association maintains an active role in informing the public about the role that sugar can play, in moderation, in a healthful diet. By creating public education programs with a variety of diet, health, nutrition, and fitness materials, the Association has worked to dispel misconceptions about sugar as well as provide opportunities for continued scientific research.

Offers Sugar Science: Photosynthesis to Food, a computer software package that explains the processes of photosynthesis and respiration as well as the role of plants in the food chain. This interactive software also provides experiments on sugar's functional role in food processing, including yeast interaction (baking), preservation (jams and preserves) and freezing (ice cream).

The program, available for a fee, was reviewed by the National Science Teachers Association and is available in the following formats: Apple IIe, Apple IIGS, IBM, Macintosh, IBM Novell, and AppleShare. Accompanying the software is a teacher's manual that includes a user's guide for the software and explanations of the experiments, including objectives, additional data and definitions, and extension activities for students. Recommended for upper elementary/middle school students. **122**

Troll School and Library L.L.C.
100 Corporate Drive
Mahwah, NJ 07430
(201) 529-4000
Fax: (201) 529-1862

A publishing firm specializing in children's books.

Publishes educational materials for students from prekindergarten through grade 8. Includes a complete line of science materials relating to life, earth and physical sciences. Some of the energy-related titles are *Electricity; Energy and Fuels; Wonders of Energy; World of Weather;* and *Discovering Electricity*. Science Thematic Units are also available for children from prekindergarten through grade 6. Materials may be purchased from the publisher. Free catalogs are available upon request. **123**

Union of Concerned Scientists
Two Brattle Square
Cambridge, MA 02238-9105
(617) 547-5552
Fax: (617) 864-9405
E-Mail: ucs@ucsusa.org
Web: http://www.ucsusa.org

An independent, nonprofit organization of scientists and other citizens concerned about the impacts of advanced technology on society.

Focuses on responsible stewardship of the environment. Materials include books and briefing papers on renewable energy, transportation policy, nuclear power safety, sustainable agriculture, global environmental problems (climate change, ozone depletion, and population), and arms control. Free brochures are available, such as *Solar Power, Energy on the Road, Nuclear Power, Renewable Energy and Developing Countries*, and *World Scientist Warning to Humanity*. Our newest book *Renewables Are Ready: People Creating Renewable Energy Solutions* describes how people across the country—from rural farm communities to large cities—have put renewable energy to work in their homes, schools, and businesses. Teachers can purchase a 100-page multidisciplinary guide to teaching renewable energy in grades 7 through 12, as well as a collection of eight posters on renewables and a renewable energy slide show. **124**

University of California-Los Angeles
Graduate School of Education
405 Hilgard Avenue
Los Angeles, CA 90025
(213) 825-4321

A State-run, academic institution.

This project involves secondary school master science teachers from the Los Angeles area in the creation of two cross-curricular, multilevel modules that focus on environmental science. Collaboration involves UCLA, area community colleges, and middle school and high school faculty. National Science Foundation support for this project began in 1993; some materials are still under development. **125**

University of Florida
Center for Economic Education
186 Norman Hall
Gainesville, FL 32611-2053
(904) 392-0971
Fax: (904) 392-7159
E-Mail: gcarr@nervm.nerdc.ufl.edu

A university center responsible for providing educational materials to teachers.

Provides curriculum guides for teachers. Available for a fee is the *Energy and Economics* (high school) and *Resources and Energy* (grades 2 and 3); *Resources and Energy* (middle school) curriculum guides are designed to give students a greater understanding of the connections between energy and economics. Bulk orders of 100 or more copies can be purchased at a discount. **126**

University of Illinois at Urbana–Champaign
School of Architecture–
Building Research Council (BRC)
1 East St. Mary's Road
Champaign, IL 61820
1-(800) 336-0616
Fax: (217) 244-2204

A nonprofit information clearinghouse and research center.

Publishes 8-, 12-, and 16-page booklets on how to make homes comfortable, healthy, and energy efficient, which are appropriate for home owners and seniors in high school. BRC offers the following publications at a nominal fee: *Home Inspection*, which examines each home system–plumbing, electrical, etc., and provides a checklist for buying a home; *Lighting*, which focuses on task, security, and general lighting; *Energy Management*, which outlines practical management plans for summer and winter; *Insulating*, which focuses on how to know what type and how much insulation is needed; *Heating*, which is about the various kinds of heating systems and how to select a system; *Selecting Windows*, which explains window options and energy savings by selecting wisely; and *Moisture Condensation*, which discusses how to keep moisture from making a home chilly and prone to water damage.

Energy Management is available in Spanish. A free publications cataiog is available upon request. A complete set of 27 booklets is available for instructors and home owners. Bulk rates are available. **127**

University of Maryland-College Park
Physics and Astronomy Department
College Park, MD 20742
(301) 454-3311

A State-run, academic institution.

Teacher enhancement opportunities were designed for middle school teachers in acoustics, optics, electricity, and Newton's laws. Manuals provide detailed discussion of a series of experiments which can be performed with selected apparatuses. National Science Foundation support for this project began in 1991; some materials are still under development. **128**

U.S. Consumer Information Center
Pueblo, CO 81009

Helps Federal agencies develop, promote, and distribute consumer information to the public through the *Consumer Information Catalog*.

Offers the free, quarterly *Consumer Information Catalog* containing listings of over 200 free and low cost Federal consumer publications on topics such as health, energy conservation, Federal benefits, money management, housing, child care, employment, small business, education, food and nutrition, and more. A free catalog is available by writing to: Free Catalog, Pueblo, CO 81009. Bulk copies are available to schools and nonprofit groups able to distribute 25 or more copies. **129**

U.S. Department of Agriculture
Forest Service
Rocky Mountain Forest and Range Experiment Station
240 W. Prospect Street
Fort Collins, CO 80526
(303) 498-1500
(303) 498-1719 (publications distribution)
Fax: (303) 498-1660

Forest Service Research is intended to serve society by developing and communicating the scientific information and technology needed to protect, manage, and use the natural resources of forests and rangelands.

Provides copies of technical publications on ecosystem component interactions, resource management and protection, resource interactions, and people's values and interactions with ecological systems. Available publications include: *Distribution of Abandoned and Inactive Mines on Forest Service Lands* and *Conceptual Framework for Minerals Analysis in the RPA Assessment*. **130**

U.S. Department of Education
ERIC Clearinghouse for Science, Mathematics, and Environmental Education
1929 Kenny Road
Columbus, OH 43210-1080
(614) 292-6717
1-(800) 276-0462
Fax: (614) 292-0263
E-Mail: ericse@osu.edu

One of 16 ERIC clearinghouses, the ERIC Clearinghouse for Science, Mathematics, and Environmental Education (ERIC/ CSMEE) develops, maintains, and makes accessible to the public the world's largest education-related database which includes over 850 items relating to energy education.

ERIC/CSMEE, sponsored by the Office of Educational Research and Improvement, U.S. Department of Education, has as its primary function the acquisition and dissemination of printed materials related to science, mathematics, and environmental education. The information is indexed and abstracted for inclusion in two monthly publications, *Resources in Education (RIE)* and *Current Index to Journals in Education (CIJE)*. *RIE* provides abstracts for a variety of educational materials; *CIJE* announces journal literature. In addition to acquiring and processing documents and journal articles, the ERIC/CSMEE staff produces digests and other documents. Digests are short publications (one page, front and

back) on a single topic. Other publications include yearbooks, source books, reviews of research, instructional activity collections on broad topics, and collections of papers presented at national meetings. The Clearinghouse offers a variety of user services and maintains a full ERIC microfiche collection, *RIE* and *CIJE* reference collection, and a library collection of materials related to the scope areas. The Clearinghouse also provides a variety of electronic services on the Internet. A Gopher server can be accessed at: gopher.ericse.ohio-state-edu and a World Wide Web server can be accessed at: http://www.ericse.ohio-state.edu. **131**

U.S. Department of Education
Office of Educational Research and Improvement (OERI)
555 New Jersey Avenue, N.W.
Washington, DC 20208-5461
(202) 219-1556
1-(800) 424-1616
Fax: (202) 219-1696
E-Mail: library@inet.ed.gov

Provides information about education research, statistics, publications, and data tapes.

Publishes a series of *Helping Your Child* books for parents. Included is *Helping Your Child Learn Geography*, which helps children look at the world in which they live, the effects of the environment on the way in which towns have developed, and the effects humans have had on the environment that have made areas livable. Other series topics include: *Science, Math, History, Reading, Using the Library, Get Ready for School, Succeed in School, Responsible Behavior,* and *Being Healthy and Fit*. All are available for a nominal fee. To obtain ordering instructions for all of the *Helping Your Child* books, write to Helping Your Child List, OERI Education Information Branch, at the above address. Write to the above address to obtain the *OERI Bulletin*, a free quarterly listing of publications, programs, statistics, and grants. **132**

U.S. Department of Energy
Argonne National Laboratory
Division of Educational Programs
9700 South Cass Avenue
Argonne, IL 60439-4845
(708) 252-4114
Fax: (708) 252-3193

A DOE-funded multi-purpose national laboratory providing programs to promote science careers and improve science education.

Argonne provides teacher research and training opportunities for science teachers for elementary school upper grades and high school. One program, the TRAC program, offers teachers an 8-week research experience at the Laboratory. A summer teacher enhancement program provides teachers experience with a scientific apparatus that is later delivered to the school via a van (Chicago area only). Teachers guides and videotapes for the PBS "New Explorers" series have been created by teams of scientists and teachers from DOE laboratories and museums around the Nation. The guides are designed to encourage students to consider science careers and to provide good science activities. Teachers in Chicago are eligible for workshops and class field trips. Teachers elsewhere can order videos and guides from PMI Films Inc. 1-800-343-4312, x359.

Also available on the Internet is a computer bulletin board for science teachers with an "Ask A Scientist" feature where scientists provide answers to various questions. The answers can be retrieved after a few days. A teacher exchange of ideas and some curricular materials are also part of the bulletin board. The bulletin board is free to teachers and can be reached via Telnet to newton.dep.anl.gov or via Mosaic through the Argonne Division of the Educational Programs Home Page. **133**

U.S. Department of Energy
Biofuels Feedstock Development Program
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6422
(423) 576-5132
Fax: (423) 576-8143
E-Mail: are@ornl.gov
Web: http://www.esd.ornl.gov/BFDP/BFDPMOSAIC/binmenu.html

A DOE-funded program that supports research, analysis, and communication activities to foster the development and adoption of alternative fuels.

Provides free information on biomass, specifically fast growing trees and grasses, for use as raw materials for conversion to transportation fuels and electricity. The information is in the form of fact sheets, reports, and bibliographies. A newsletter, *Energy Crops Forum*, is published periodically. In addition, a World Wide Web/Internet service, the Biofuels Information Network, contains full text of many of the reports, newsletters, and fact sheets and provides pointers to other places with related materials. **134**

U.S. Department of Energy
Bonneville Power Administration
Community Education Program-CKPP
P.O. Box 3621
Portland, OR 97208-3621
(503) 230-3709
Fax: (503) 230-4019
E-Mail: jhmcnamara@bpa.gov

Bonneville Power Administration (BPA) is both an electric utility and a Federal agency within DOE. Established in 1937, BPA markets electric power from Federal dams and other energy resources in the Pacific Northwest. BPA employs approximately 3,300 persons in Idaho, Montana, Oregon, and Washington. The majority work in the Portland-Vancouver metropolitan area headquarters and control center. BPA works with several business, school, and government agency partnerships. Many employees volunteer each year for various programs.

Participates in a variety of education programs in the BPA four-State service area. Various programs, which are available for teachers and students from primary school through high school, include math and science enhancements, hands-on learning, worksite mentoring and apprenticeships, competitions, environmental education, tutoring, and others. Educational materials loaned or given free of charge to teachers include curricula, activity, and storybooks; posters; videotapes; and exhibits. Topics covered are primarily electricity, energy conservation, and fish and wildlife. **135**

U.S. Department of Energy
Carbon Dioxide Information
Analysis Center (CDIAC)
MS-6335, Building 1000
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6335
(423) 574-0390
Fax: (423) 574-2232
E-Mail: cdiac@ornl.gov
Web: http://cdiac.esd.ornl.gov/cdiac

A DOE-funded program that provides information support to the international research, policy, and education communities for evaluation of issues related to climate change.

Provides reports and fact sheets, including a newsletter, *CDIAC Communications*, which describes CDIAC and DOE initiatives in global change research. *Trends: A Compendium of Data on Global Change*, a quick source of frequently requested data, is also available. *Global Change Acronyms and Abbreviations* is a new publication providing a comprehensive listing of acronyms and abbreviations used in global change research, policy, and education settings. *Glossary: Carbon Dioxide and Climate* contains a glossary of CO_2-related terms and tables of information related to CO_2 and climate. These materials are suitable for middle school and high school students. All are free. Four-page *DOE Research Summary* briefs are available, as well as a PC model on global energy-CO_2 emissions. The *IEA/ORAU Long-Term Global Energy Economics Model with CO_2 and CH_4 Emissions* is a PC-version of a computer model package, suitable for high school and college students, with a number of variables to interactively produce CO_2 and CH_4 emission scenarios for 1975 through 2100. **136**

U.S. Department of Energy
Clean Cities Hotline
P.O. Box 12316
Arlington, VA 22209
1-(800) CCITIES or (224-8437)
Fax: (703) 528-1953
E-Mail: hotline@afdc.nrel.gov

The Clean Cities Hotline, sponsored by DOE, provides information on the Clean Cities Program–a voluntary and cooperative effort to promote alternative-fuel vehicles.

Provides implementation and technical information on the DOE's Clean Cities program. Works to help communities convert to alternative-fuel vehicles through coordination planning. Also provides general information on the Clean Cities Program, lists of involved cities and participants, as well as technical and regulatory information of use to Clean Cities, such as funding for alternative-fuel vehicles and information on the Clean Air Act and Energy Policy Act. Remains in direct contact with the Clean Cities Program Directors, DOE regional offices, and involved Clean Cities. The Hotline is available between 10 a.m. and 6 p.m., eastern standard time. The toll-free 800 number is available to callers in the United States only. **137**

U.S. Department of Energy
Energy Efficiency and Renewable
Energy Clearinghouse (EREC)
P.O. Box 3048
Merrifield, VA 22116
1-(800) DOE-EREC or (363-3732)
1-(800) 273-2955 (bulletin board service)
Fax: (703) 893-0400
E-Mail: doe.erec@nciinc.com

A DOE-funded energy information service responding to public inquiries on the use of renewable energy and energy conservation.

Provides information on renewable energy and energy-efficient technologies to consumers, teachers, and students. Maintains lists of organizations that will supply educators with energy-related booklets, audio-visual materials, software, bibliographies, project contacts, kits, and equipment. Publications suitable for primary school and secondary school students are available. Teachers and librarians may request activity lists, bibliographies, and background materials. Publications are free. **138**

U.S. Department of Energy
National Alternative Fuels Hotline
P.O. Box 12316
Arlington, VA 22209
1-(800) 423-1DOE or (423-1363)
Fax: (703) 528-1953
E-Mail: hotline@afdc.nrel.gov

The National Alternative Fuels Hotline (NAFH) is sponsored by DOE to assist the general public and interested organizations in improving their understanding about alternative transportation fuels.

Provides information on vehicle conversion technology, refueling station locations, and Federal alternative fuel programs. Free publications and data are available on alternative fuel technology, legislative and regulatory changes, and other issues concerning the alternative transportation fuel industry. In addition, NAFH works directly with the National Renewable Energy Laboratory's Alternative Fuel Data Center (AFDC). Data on vehicle emissions, performance, fuel economy, maintenance and more are available through the AFDC. For more on alternative fuels and the AFDC, call NAFH's toll free number. **139**

U.S. Department of Energy
National Energy Information Center (NEIC), EI-231
Energy Information Administration
1000 Independence Avenue, S.W.,
Room 1F-048
Washington, DC 20585
(202) 586-8800
Fax: (202) 586-0727
E-Mail: infoctr@eia.doe.gov
Web: http://www.eia.doe.gov

NEIC is the information dissemination service for DOE's Energy Information Administration, which is responsible for the collection, analysis, and distribution of energy statistics.

Available free of charge is an "Energy INFOcard," a quick-reference card providing the most recent annual domestic and international energy data; *Energy Education Resources: Kindergarten through 12th Grade;* and *Energy Information Sheets,* a booklet comprising one-page capsules on such energy topics as petroleum, natural gas, coal, and renewable energy. All three products are also available on EIA's World Wide Web site. **140**

U.S. Department of Energy
National Low Level Waste Management Program, EM-32/TREV
Office of Environmental Management
19901 Germantown Road
Germantown, MD 20874-1290
(301) 903-7177
Fax: (301) 903-7451

A Federal program providing both general and special technical assistance to States and regions to establish an effective nationwide system for the disposal of commercial low level radioactive waste.

Provides general information on low level radioactive waste management through short fact sheets, a booklet with answers to frequently asked questions on low level radioactive waste disposal, and brochures on what constitutes commercial low level waste; concepts for disposal of low level waste; and low level radioactive waste basics. **141**

U.S. Department of Energy
Office of Civilian Radioactive Waste Management
Human Resources and Administration
Administration Division, RW-15
1000 Independence Avenue, S.W.
Room GF-277
Washington, DC 20585
(202) 488-6720
1-(800) 225-NWPA
Fax: (202) 488-6721
Web: http://www.rw.doe.gov

A Federal program established to manage and dispose of the Nation's spent nuclear fuel and high level radioactive waste.

Furnishes a recently revised curriculum, *Science, Society, and America's Nuclear Waste*, to educators free of charge. The four-unit curriculum, designed for use in grades 8 through 12, contains materials for both students and teachers. Student materials include readings, review exercises, and activities. For teachers, supplemental teaching aids include videotapes, computer software, and viewgraphs. Also available is general information on the Civilian Radioactive Waste Management Program, including fact sheets, brochures, videotapes, and a quarterly newsletter. All publications and videotapes are free upon request. **142**

U.S. Department of Energy
Office of Fossil Energy
Communications, FE-5
1000 Independence Avenue, S.W.,
Room 4G-085
Washington, DC 20585
(202) 586-6503

A Federal Office providing technical and public education-related information on coal, oil, and natural gas technologies, and the Nation's petroleum reserves.

Offers *Dinosaurs and Power Plants*, a three-document teaching set that relates the story of mining and drilling for coal, gas, and oil; environmental concerns; and modes of transportation. Included are two teaching guides and a booklet for students. Another publication, *Clean Coal Technology*, and a poster, The Clean Coal Path, are also available. All are free. **143**

U.S. Department of Energy
Office of Nuclear Energy, Science and Technology
Office of Planning and Analysis, NE-20
Washington, DC 20585
(301) 903-6590
Fax: (301) 903-5993

Public Information Office for the Office of Nuclear Energy, Science and Technology. Responds to public inquiries about DOE's civilian nuclear energy program.

Offers energy educational materials, including historical and current factual data on nuclear energy. Pamphlets discuss such issues as the nuclear fuel cycle and civilian uses of nuclear energy. Available publications include: *The History of Nuclear Energy, Atoms to Electricity, The Harnessed Atom*, and several others. Also provides a booklet listing nuclear power plants, with operating data. All publications are free.
144

U.S. Department of Energy
Office of Scientific and Technical Information
P.O. Box 62
Oak Ridge, TN 37831
(423) 576-8401
Fax: (423) 576-2865
E-Mail: usertalk@adonis.osti.gov

The Office of Scientific and Technical Information (OSTI) is responsible for the management of DOE's scientific and technical information. OSTI works with DOE's program offices in making energy-related information available to the public.

Provides pamphlets on various energy-related subjects as available and as directed by the program offices. Many publications are free. Also provides electronic access to departmental information through the DOE Home Page at the World Wide Web Server URL http://www.doe.gov on the Internet. This server can also be reached by dial-up through a modem at (423) 241-3901. **145**

U.S. Department of Energy
Pittsburgh Energy Technology Center
Education Outreach
P.O. Box 10940
Mailstop 141-L
Pittsburgh, PA 15236
(412) 892-5034
Fax: (412) 892-4158

A Federal fossil energy research facility.

Provides free materials for grades 3 to 5 that include extensive activities and teacher lesson plans. The materials were developed as a joint project between Pittsburgh Energy Technology Center scientists and teachers in the Elementary Teacher Research Internship Program. The materials include a booklet entitled *Coal: Energy for Home and Community*, laboratory activities, support information, discussion ideas, and overhead masters for viewgraphs on coal as well as solar and wind energy sources. **146**

U.S. Department of Energy
Sandia National Laboratories (SNL)
Educational Outreach
Organization #0035
P.O. Box 5800
Albuquerque, NM 87185
(505) 271-7828
Fax: (505) 271-4125

A DOE-funded national laboratory educational service to promote awareness of energy sources and uses.

Provides educational products and class material for kindergarten through university-level classes. Relevant titles/services for students from kindergarten through grade 12 include Capturing the Sun's Energy classroom experiments, science fair project ideas, "Capturing Sunlight for Everyone's Use" (videotape), and the Sandia Teachers Resource Center. **147**

U.S. Department of Energy
Southwestern Power Administration
P.O. Box 1619
Tulsa, OK 74101
(918) 581-7474
Fax: (918) 581-7530

A DOE power marketing administration serving the six-State area of Arkansas, Kansas, Louisiana, Missouri, Oklahoma, and Texas.

Provides tutoring and special project assistance to a local magnet middle school. Also provides a limited number of educational/informational publications, designed for elementary school-age children, on safe play around electrical sources. **148**

U.S. Department of Energy
Superconductivity Program for Electric Systems
Education Outreach
P.O. Box 3048
Merrifield, VA 22116
1-(800) 363-3732
Fax: (703) 893-0400

A DOE program to provide the basic science and technology for U.S. industry to develop electric power applications of high temperature superconductivity.

Provides educational materials on superconductivity, including curriculum guides and instructional videos, to middle school and high school science and energy educators. The materials were developed in a partnership between Energy Efficiency and Renewable Energy and the Office of Scientific Education and Technical Information. **149**

U.S. Department of Energy
Western Area Power Administration
P.O. Box 3402
Golden, CO 80401
(303) 275-1739
Fax: (303) 275-1717
E-Mail: buntin@wapa.gov

A DOE power marketing administration encompassing all or parts of 15 western States.

Provides contact points with WAPA's customers regarding on-going energy educational efforts on conservation and renewable energy for students from kindergarten through grade 12. For information, call the Energy Services Manager in any of the following cities: Billings, Montana, (406) 247-7392; Loveland, Colorado, (303) 490-7227; Phoenix, Arizona, (602) 352-2655; Sacramento, California, (916) 353-4435; and Salt Lake City, Utah, (801) 524-5495, or the Division of Energy Services in Golden, Colorado. **150**

U.S. Department of the Interior
Bureau of Land Management (BLM)
1849 C Street, N.W.
Washington, DC 20240
(202) 208-3435 (Public Affairs)
(801)539-4244 (Minerals Outreach Coordinator)
Fax: (202) 452-0399

A regulatory agency responsible for the management of a wide variety of resources on public lands. These resources include wildlife habitat, recreational values, cultural and historic sites, scenic, and wilderness areas as well as more than 60 types of minerals produced from public lands.

Provides materials on energy and mineral resources found on Government-owned land. BLM has an active program for presentation of energy and minerals sciences, especially as they relate to the public lands. Exhibits may be arranged for professional functions or fairs. Presentations at local schools or youth gatherings can be arranged through any BLM office or through the Minerals Outreach Coordinator in Salt Lake City, Utah. Demonstration areas showing preservation and reclamation techniques may be used as field trips for students. Also offers several videos on preservation of ecosystems and reclamation. Pamphlets, brochures, maps, fact sheets, environmental studies, and statistical summaries are available free upon request or for a minimal charge. BLM is also active in the preservation of old mining towns, and tours of these "ghost towns" may be arranged. **151**

U.S. Department of the Interior
Minerals Management Service (MMS)
1849 C Street, N.W.
Washington, DC 20240
(703) 787-1080
Fax: (703) 787-1010 or (703) 787-1186

MMS is a regulatory agency responsible for balancing energy and mineral resource development with protection of environmental resources on the U.S. Outer Continental Shelf.

Provides informational materials on gas, oil, mineral, and environmental resources in the ocean. Available materials include color photo posters, brochures, fact sheets, statistical summaries, technical reports, newsletters, environmental studies, and professional papers. Most material is free upon request, but quantities may be limited. MMS has an

extensive color slide collection, and arrangements may be made for loans or duplications at cost. Most information is suitable for upper grade levels.

Offices in Washington, DC; New Orleans, Louisiana; Camarillo, California; and Anchorage, Alaska, can arrange for presentations at local schools on the work conducted at MMS and on geology, environmental science, engineering, resource management, international activities, and related topics. Several video programs are available on loan, including a new interactive video. MMS professionals have worked with schools to develop their energy and environmental resource curricula. Call or write for further information and referral or to ask for a catalog of publications. **152**

U.S. Environmental Protection Agency (EPA)
Public Information Center, 3404
401 M Street, S.W.
Washington, DC 20460
(202) 260-2080
Fax: (202) 260-6257
E-Mail: public-access@epamail.epa.gov

Provides free material on drinking water, air quality, pesticides, radon, indoor air, Superfund, wetlands, and other environmental topics. **153**

Public Information Center for EPA. Responds to public inquiries about environmental issues and EPA programs. Also serves as the main referral point for the Agency.

Videodiscovery, Inc.
1700 Westlake Avenue N. , Suite 600
Seattle, WA 98109-3012
1-(800) 548-3472
(206) 285-5400
Fax: (206) 285-9245
Web: http://www.videodiscovery.com

An educational software publisher.

Developer and publisher of multimedia programs for kindergarten through college-level science education. Specifically, the company publishes interactive science videodiscs, CD-ROM's, and computer software, such as *STS Science Forums; Understanding Earth; Chemistry at Work; Science Sleuths;* and *Physics at Work*. The company is dedicated to improving science instruction through the advancement of educational technologies. A free catalog of products is available upon request. **154**

Water Environment Federation
601 Wythe Street
Alexandria, VA 22314-1994
(703) 684-2400
1-(800) 666-0206
Fax: (703) 684-2492
E-Mail: lloken@WEF.ORG

A not-for-profit technical and educational group of water quality experts with more than 41,000 members located in all 50 States and around the world.

Publishes *The Water Sourcebook*, with over 60 hands-on classroom activities; the *Water Environment Curriculum Program*, including units on wastewater (also available in Spanish), surface water, groundwater (also available in Spanish) and water conservation. Many of the water quality experts act as classroom resources through the WEF Adopt-A-School program. Local members choose to "adopt" schools by providing guest speakers, presentations, and tours of water treatment plants, plus videos and other special resources. For more information on these and all of WEF's public education materials and brochures, call the toll free number. **155**

Waverly Light and Power
1002 Adams Parkway
P.O. Box 329
Waverly, IA 50677
(319) 352-6251
Fax: (319) 352-6254

A municipal utility serving electric needs of the community.

Provides educational services free to educators **within its service territory**. Services include generating plant tours, classroom presentations, and purchased reference materials for kindergarten through grade 12. **156**

Westinghouse Electric Corporation
Energy Systems
Communications Department
P.O. Box 355, Bay 216 E
Pittsburgh, PA 15230-0355
(412) 374-6803

A company dedicated to providing high quality products, services, technology, systems, and management in nuclear energy, as well as advanced energy and process control systems.

Provides energy-related materials to all who are interested, especially to teachers and to students who will make our energy decisions in the future. A few copies of the booklets are available free of charge. However, for larger quantities, there is a fee. Materials available are: a simulated uranium fuel pellet; *Electricity from Nuclear Energy; Nuclear Energy Glossary; Questions Kids Ask About Energy, Radiation Booklet*; and Component Illustrations (color prints). For more information, you may contact the Communications Department of the Energy Systems Business Unit. **157**

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